

Introduction

4

uniform in their Operation. upon ^{the} whole then I embrace the Dogmatic plan of teaching Physic, & shall deliver these Lectures in this way only. But I shall always combine Experience & Reasoning together.

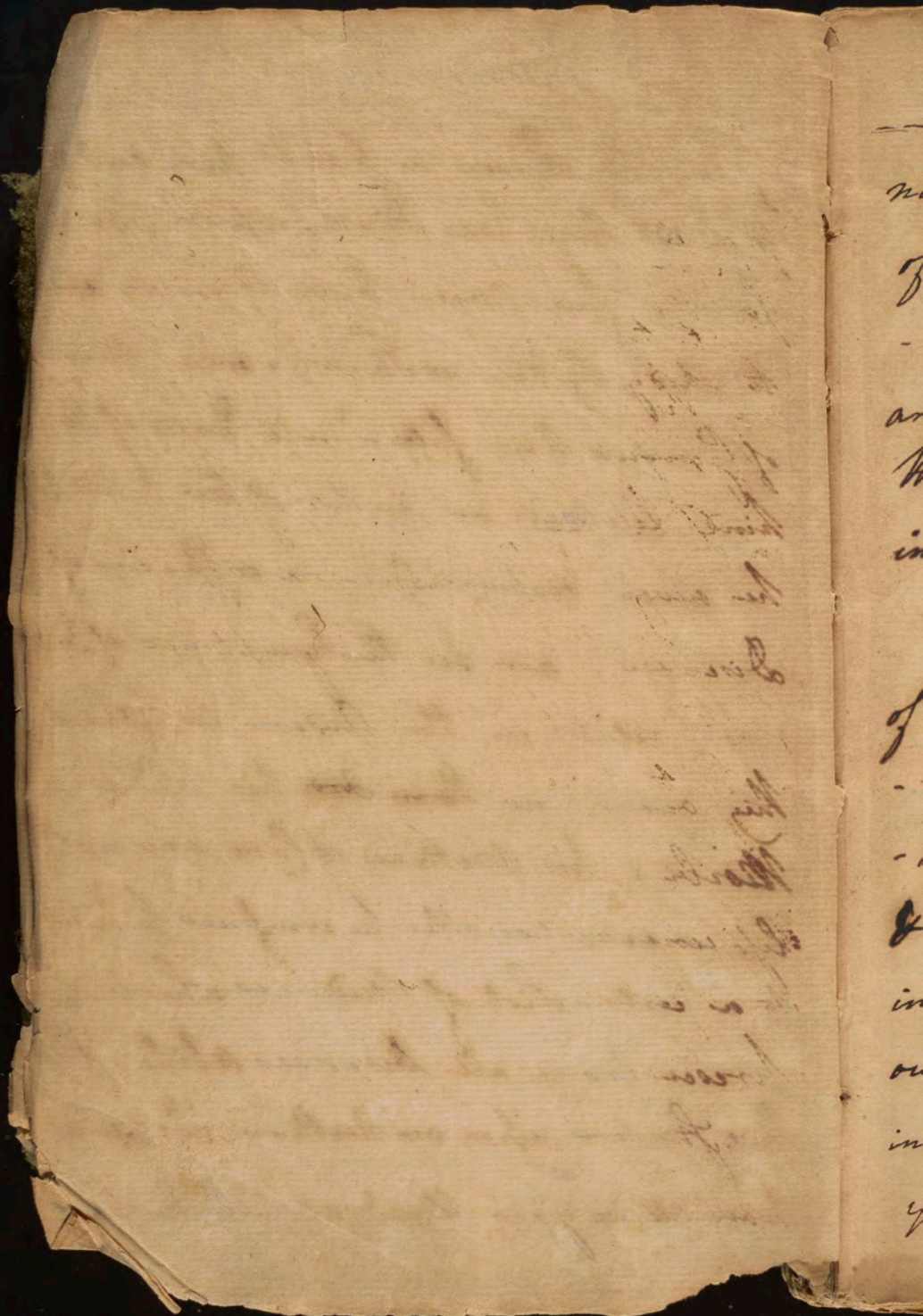
But some will tell you if all Physicians practise a like however different their Theories may be, & hence the little Importance of Theory or Reasoning in Physic! But I deny this Fact, for altho in Consultation men may agree yet a man who thinks for himself will in his private practise judge for himself also. the Practise of different Ages is ^{very} widely different, & has always

1a) These pictures relate only to the
Author's *Précis de la Médecine*

Introduction

4

influenced by Theory as I would point out to you at large was this a proper place for it. few men have Genius ^{enough} to study System or Theory. even men of Genius have fallen into Errors of this kind. Lieutaud is an Author of this kind: he never distinguishes Genera or Species of Diseases, nor are the Symptoms of Diseases related in the Order in which they occur in ~~the~~ ~~his~~ his *Historia Morbi*. his Methods of Cure are not ~~less~~ ^{less} ~~con~~exceptionable. he confines himself to a certain List of Medicines which he prescribes in all Diseases alike. ^{That} these Structures upon an Author ^{is} in your hands absolutely not



Introduction

5

nor do I think them foreign to a course
of Lectures on the Practice of Physic.

- He tells us too that all his Recipes
are the Result of Experience. strange!
that Experience sh^d. teach differently
in France from w^h. it does in England!

In my Opinion a new Method
of studying Physic must be proposed.
- Facts must be better arranged,
- Diseases must be better distinguished,
& proximate Causes must always be
investigated if we would wish to advance
our Knowledge in Physic, & our Skill
in curing Diseases. Still I would advise
you not to be too much attached to

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any One System, Altho some One System
is absolutely necessary. I believe we
never had a worse set of Practitioners
than at present, th w: is owing to their
not being attached to any One System, for
we are fluctuating between ^{se} Systems
of D^r Boerhaave Stahl & Hoffman.

But you are happy Gentlemen
in having attended D^r Gregory's
Lectures upon this subject th w: I may say
are the best now given in Europe. I
do not pretend to improve upon them.
— all I design is, to deliver a few general Doc-
trines th w: are peculiar to myself, & such as are
^{not} to be found in ^{any} Books of Physic. They are Notes
th w: I have embraced, & taught these 20 Years,
& which many of you have heard & read from Other
Mouths & Other Books besides my own.

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Introduction

7

I shall now add, what Assistance you may receive from Books. I think it absolutely necessary that you should be acquainted wth the works of Boerhaave Hall & Hoffman. next to these I would advise you always to have Cruveilhier's Neurologia Methodica ^{before} ~~of~~ your ^{Eyes} ~~mind~~, as also Linnaeus & Vogel who have each of them attempted a systematic Arrangement of Diseases.

To assist you in the Investigation of proximate Cause you must consult Definitions. the best ^{Books} for this purpose are Crangonius' Edition of Bonetus' Leptodactylum Anatomicum - Morganii de Causis & sedibus morborum, & a late work of Linnaeus called "

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Introduction

8

Before I deliver my plan I shall give you a few more general principles. I before pointed out to you the Importance & necessity of System in Physic.

Diseases may be distinguished as Objects of Sense & in this manner may be reduced to a *Methodica* & 2nd from their proximate Causes. This last Method of dividing Diseases has hitherto been unattempted. I shall ^{not} now offer my Reasons for adopting it, but hope to convince you of its propriety hereafter. We have great Encouragement to proceed in Arranging Diseases in a systematic way from y^e success^e the botanics of Botany have met with in the Arrangement of plants. Dr. Gaubius has pointed out to us the possibility of the

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Introduction

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same success in Medicine in ~~100~~ $\frac{2}{3}$ 840 &
of his Pathology. Altho' we have as yet
reaped no great Advantages from the Attempts
y^t have been made, yet it should not dis-
courage us from making further & more
vigorous Attempts in this way. particu-
-lars cannot be studied by themselves from
w^h we said before concerning the Nature
of Definition in the Language of the
Logicians. When we knew but a few
Genera & species of plants our Investigation
of them was much more difficult than
at present since our Knowledge of plants
has become more enlarged. But even y^e
Science of Botany cannot be complete till
every plant in the world is found But all

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Introduction

10

It is tend to show the necessity of reducing Particulars to System in Order to establish our Knowledge of them. This then is my Apology for the strictures I intend to make on the Arrangement of Diseases by Others, & the one I propose to offer of my Own.

In all Systems of Science the utmost Respect must be paid to ^{the} Nomenclature of particular Genera & Species or all our Language will be very vague & inaccurate. Denomination will always keep pace precisely wth distinction in all Sciences more especially in Medicine.

I shall now give you a few strictures upon the Systems of Physic that have

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Introduction

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been attempted each of which are far from being accurate. I shall therefore reject them all, but first give you my Reasons for it.

you see from the Comparison of three of them in the 1st page that Lauvage Linnaeus & Vogell all agree in the 1st, 4th, 6, 7, & 9th in the 8th & 10 Lauvage & Linnaeus agree, as also in their 2nd & 3rd, except that Linnaeus has divided one of these last Classes into 2 Orders. Lauvage & Vogel agree in general except in the 5th Class of 4^e forms & a few other particular where Orders are made Classes or Classes Orders. The general Agreement of these 3 are their points but the possibility & advantages of Systematic Arrangement in Diseases.

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Introduction

12

Some of these Classes ought entirely to be rejected from our System. the Critia is established by too slender a Definition: as being derived from the feet, which we know is liable to great Ambiguity. - This Class in particular is confounded th w: all the Diseases of the Skin w: properly come under another Class.

The Arrhelationes should likewise be rejected as being ^{an} ~~an~~ improper Class. it unites many Genera of Diseases which have no Relation to One Another except in the single Symptom of difficult Respiration. $\frac{c}{y}$ Asthma & Hydrothorax have no Relation to One another ~~as they~~ ^{But}, they are both arranged in this Class.

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Introduction

13

The Dolores should likewise have no con-
:dation in a System of Physic. it is formed from
a single Symptom w^{ch} was the Case wth the
former Clap. in ^{all} our Arrangement of
Diseases we should strictly avoid blending
Diseases together from Symptom^{ch}: are
common to many or most of them. thus
the Cardialgia & Rheumatism are placed in
this Clap. & yet how widely different are
the Causes & Cures of these two Diseases!
Besides he omits many Diseases ~~now~~
under this Head where pain is ^{the} most
characteristic Symptom, nor does he properly
distinguish between Uneasiness & pain, &
hence he reduces sickness ~~to~~ ^{the} ~~part~~ ^{part} ~~of~~ ^{to}
this Clap. The Other 7 Claps of Force.
= vaue may be admitted under proper

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Introduction

14

Restrictions. The 2 & 3 viz: the Leues
& Phlegmas might w: ^{the} equal propriety
have been reduced to the one general Class
of Febris. They are however natural
Classes. They are all defective in this par-
ticular viz: ^{in having} rejected all Cases of external
Inflammation.

The 4th viz: the Spasmi is likewise a
natural Class, & common to all the
Authors we have spoken of. But it
is defective in them all, in excluding the
Asthma Palpitatio Cordis &c, nor should
they be separated from Other Spasmodic
Diseases where the Spasm is more diffi-
culty Observed.

The 6th Class Debilitatus is founded in Nature
but as it comprehends Organic Diseases

The above is a list of the
 names of the persons who
 have been admitted to the
 membership of the Society
 since the last meeting.

of the Juncos, which properly belong to another Class. This Class ought only to comprehend the more general Affections of the Nervous System.

The 8th Mania is upon the whole a natural Class, but it is ~~not~~ faulty in comprehending the Organical Affections of particular Organs such as the Cataract & several other Diseases of the Eye^{ch} which have no Relation to Hypochondriasis or Delirium.

The 9th Fluxus is a faulty Class in not distinguishing those Fluxus^{ch} which are active & passive as Pathologists call them, as well as those^{ch} which are & those^{ch} which are not attended with Fever.

The 10th Cachexia is likewise incorrect in

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not distinguishing Organic from Systematic Affections. nor is the Definition of this C properly restricted.

To these Cases of Lauvage Vogel has added another viz the Epischeses ^{ch}. Lauvage rejects upon the Au^r: of its be defined by negative Qualities. This I grant should be avoided in all Definitions as much as possible, but they must ^{sometimes} be called in. Lauvage himself falls in to it in a hundred Instances in the Course of his work.

— I cannot say however there was any necessity for a Class of this kind, as the suppression of Excretions is often nothing else but a Symptom of other Disease.

After having raised the Objections

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to these Systems of Physic I have presumed
to Offer One of my own th is indeed a
very imperfect Attempt at a *horologia
methodica*. I had not time to make
it better. I tho't it absolutely necessary
as a Foundation for these Lectures, and
I am willing to sacrifice a little of
my own Reputation ~~to this~~ for your
Advantage.

I have divided the plan into two
parts. the first come immediately un-
der the notice of the Physician. the 2.^d
belongs more properly to the Surgeon &
upon that Art has often been left out
of a course of practical Lectures, th I propose
to do in this the present.

18
Synopsis morborum

Part I.

Morbi universales sive to hies Systematis

Classis I. Pyrexiae. Post Mororem, pulsus
frequens, calor major, viribus Artuum
imminutis.

Ordo 1^{mus}. Febres. Pyrexia sine morbo locali
primario.

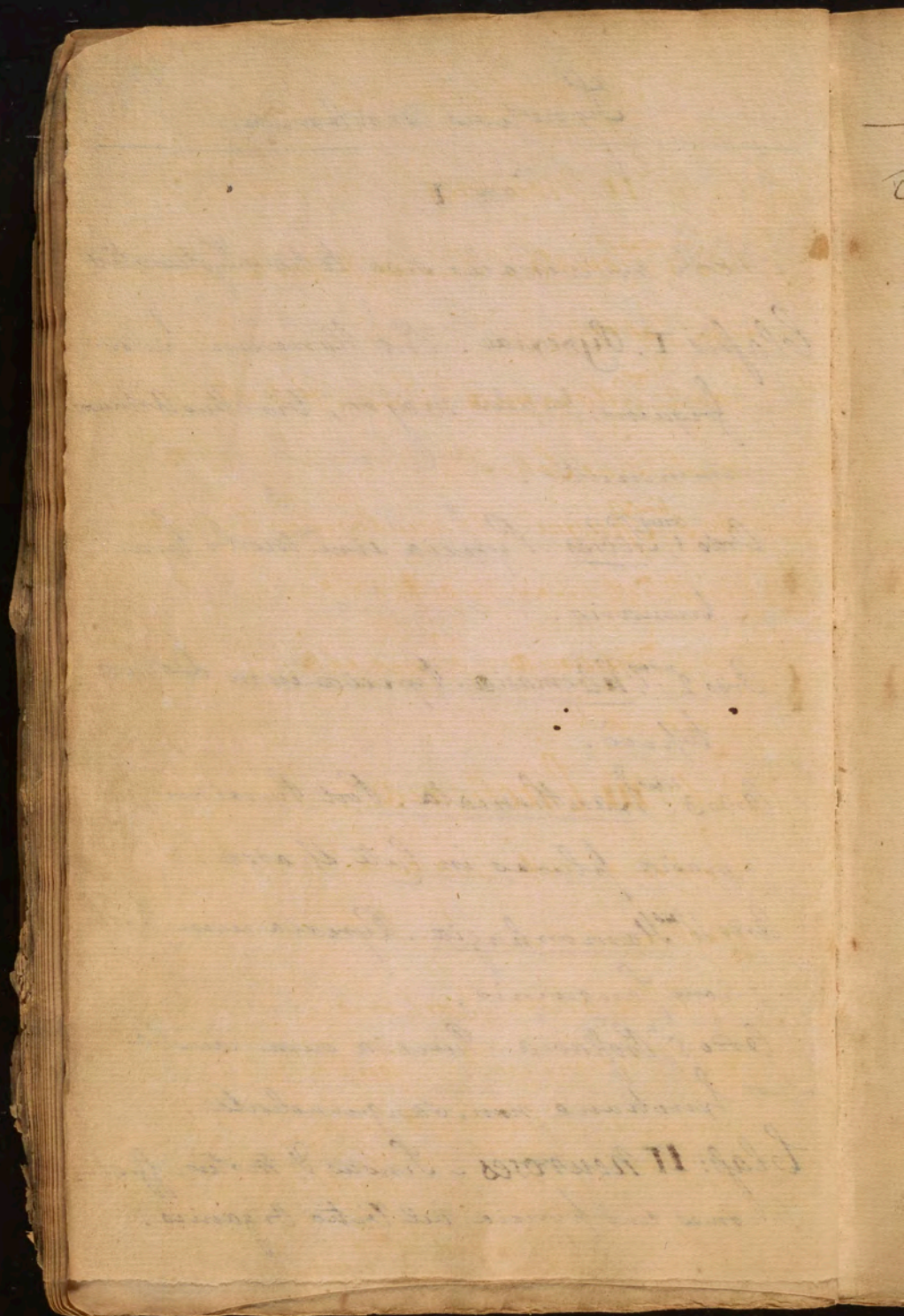
Ordo 2^{ndus}. Phlegmasia. Pyrexia cum dolore
topico.

Ordo 3^{tius}. Eanthemata. Post Pyrexiam phleg-
= masia plures in cute sparsae.

Ordo 4^{thus}. Hæmorrhagia. Pyrexia cum profusa
= sione sanguinis.

Ordo 5^{us}. Profluvia. Pyrexia cum Acuta
Excretionem non sanguinolenta.

Class: II neuroses. Sensus & motus affecti:
= ones sine pyrexia vel vitio Organico.



Synopsis morborum ¹⁹

Classis II Neuroses.

Ordo 1: ^{mus} Comata. Sensus & motus imminuti
cum sopore.

Ordo 2: ^{mus} Adynamia. Sensus & motus immi-
nuti sine sopore.

Ordo 3: ^{mus} Spasmi. Muscularium Fibrarum
Contractiones inordinatae.

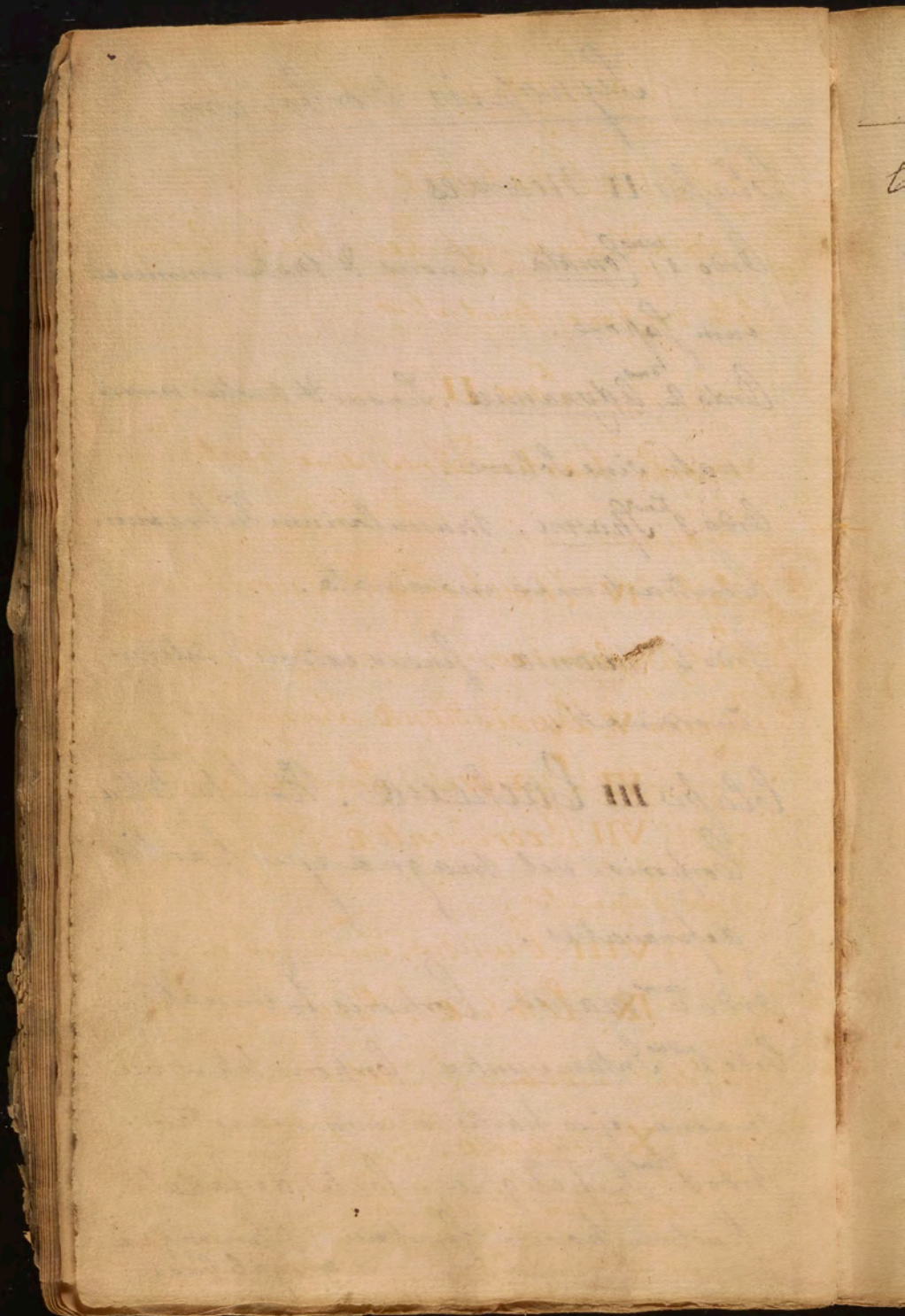
Ordo 4: ^{mus} Vesania. Sensus externi & interni
inordinati.

Classis III Cachexiae. ^{externi} Habitus totius
Corporis, vel magno ejus partis
depravatus.

Ordo 1: ^{mus} Macies. Corporis Extenuatio.

Ordo 2: ^{mus} Intumescentia. Corporis totius vel
magno ejus partis volumen adauctum.

Ordo 3: ^{mus} Impetigines. Cutis defodata
pustulis parvis, Crustaceis plerumque
gregalibus.



Synopsis morborum 20

Classis III Cachexia.

Ordo 4^{tus}: Decolorationes. Cutis Color in
toto Corpore mutatus.

Pars II.

Morbi particulares sive partis unius
Organici.

Classis IV. Epischeses. Externendorum
Suppressiones

Classis V. Dysaesthesiae. Sensus imminuti.

— VI Dialysis - Solutiones Continui.

— VII Pærensentia. Tumores a soli:
= dis adhaerentis.

— VIII. Cystides. Tumores capsulati.

— IX. Ectopie. Partium solidarum
e suis Locis Dimotiones.

— X. Maculae. Cutis Coloris in
partibus Mutatio.

II

IV

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VI

VII

VIII

IX

X

Introduction

24

The 1st Class the Pyrexia is a natural
Class & will therefore be readily admit-
ted. All the Orders w^{ch} it includes com-
prehend those Diseases w^{ch} depend upon
an increased action of those powers w^{ch}
move the Fluids.

in the 1st Order under the Definition of
Fever I have added the word primario.
- you will see the propriety of this addition
by consulting § 848 of Dr. Gaubius' Patho-
logy.

The 2nd Order Phlegmasia ought to com-
prehend a Definition of Inflammation
but this would be foreign to our purpose
I would have restricted it too much.

The 3rd Order you will perhaps think in-
complete in not comprehending the

the first of these is a letter
from the author to the
editor of the London and
Westminster Review, dated
the 1st of January 1841, in
which he states that he has
been asked to write a paper
on the subject of the
present state of the
country, and that he has
accepted the challenge.
The second of these is a
letter from the author to
the editor of the same
Review, dated the 1st of
February 1841, in which
he states that he has
written a paper on the
subject of the present
state of the country, and
that he has submitted it
to the editor for his
consideration.

Trisphelas or Anthrax, but I shall tell you my Reasons for omitting them here presently.

The 4th & 5th Orders are very generally attended wth Fever & therefore come properly under this Class.

Class II. Neuroses. Physicians disagree about this Class. the Definition I have offered I hope will include them all.

The Orders I have placed under this Class are not new, but the Arrangement of them is somewhat different from Lauvage.

Class III. Cachexie. This is a very difficult Class, & all the Orders brought under it are included from dogmatic views

12

1. The first thing I should mention is that the weather was very pleasant today. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was delicious and everyone enjoyed it. We spent a very nice day and it was a great experience. I hope to go back soon.

2. The second thing I should mention is that the weather was very pleasant today. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was delicious and everyone enjoyed it. We spent a very nice day and it was a great experience. I hope to go back soon.

3. The third thing I should mention is that the weather was very pleasant today. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was delicious and everyone enjoyed it. We spent a very nice day and it was a great experience. I hope to go back soon.

4. The fourth thing I should mention is that the weather was very pleasant today. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was delicious and everyone enjoyed it. We spent a very nice day and it was a great experience. I hope to go back soon.

5. The fifth thing I should mention is that the weather was very pleasant today. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was delicious and everyone enjoyed it. We spent a very nice day and it was a great experience. I hope to go back soon.

Introduction

23

or from notions of proximate Causes.

Order 1st maies. I believe seldom exists. it is rather a Symptom of Other Diseases as we shall hereafter show.

Order 2nd the Intumescuntia shall include all the species of Dropsy, as they all depend in some measure on one common Cause.

I told you before y^t. I did not intend to treat of the 2nd part of the Causes of Diseases in our plan. you will find them accurately pointed out & divided by Dr. Gaubius in his Pathologia y^t under y^e Head of "morbi pleurum Continuum", & morbi Intermentarii"

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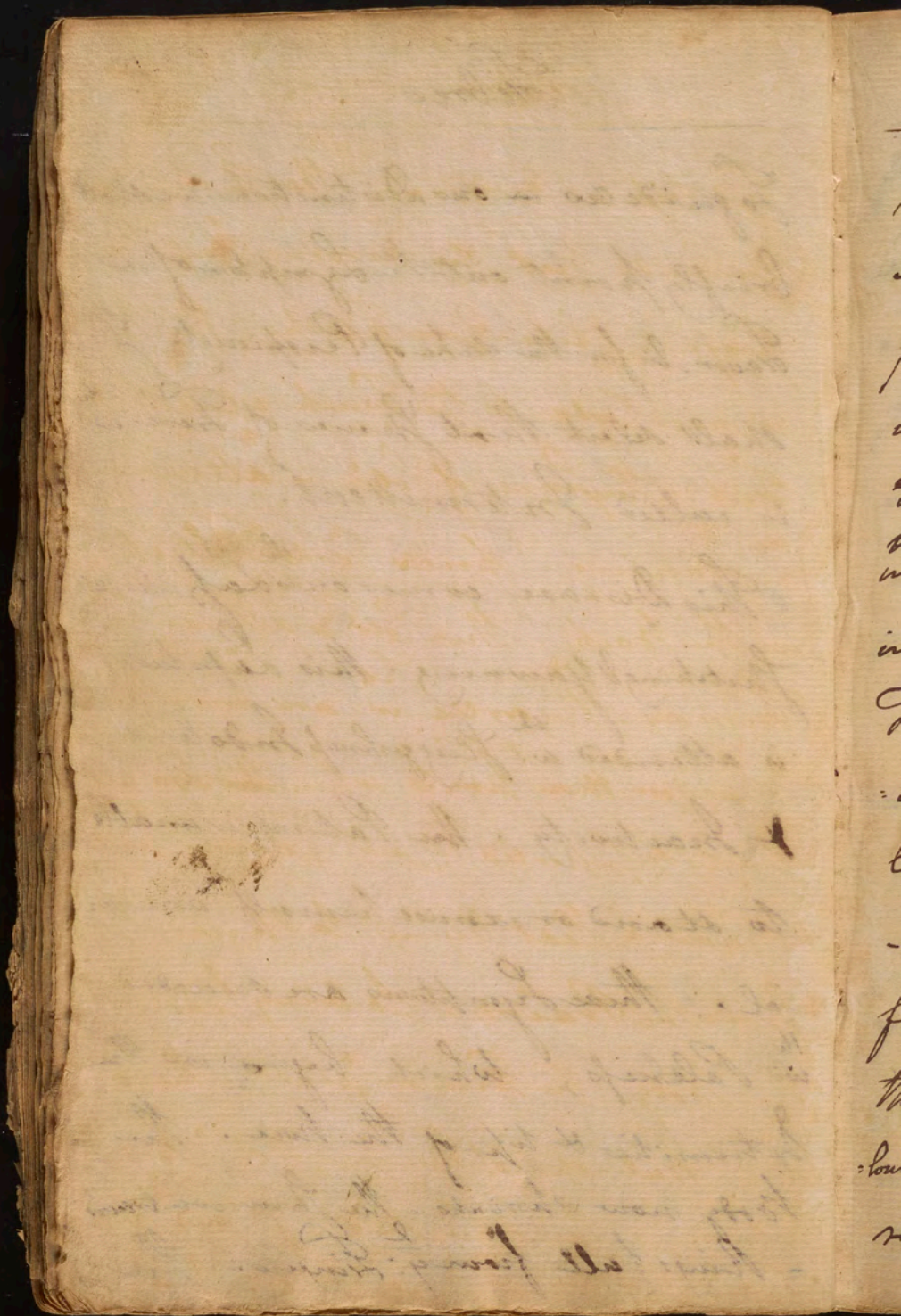
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I shall now enter upon the Consideration of the ist Class viz: the Pyrexia. I shall omit treating of this Class in a general way, but proceed immediately to the Disposition of the ist Order viz: the Febres where the Pyrexia do uniformly attends. It is the great Advantage of Nosologia Methodica to distinguish Diseases by those marks only th are essential & pathognomonic. Pyrexia therefore & even a quickness of Pulse are not sufficient to characterize Fevers. Something else then must be called in. I have therefore in Imitation of Lavruage chose to distinguish it likewise by the Horror th so universally attends Fevers.

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To guide us in our Distinctions we shall briefly point out the Symptoms of a Fever, & for the sake of Perspicuity I shall select that Species of Fever^{ch} is called Intermittent.

This Disease comes on wth a Lapsitude shivering & yawning. This Lapsitude is attended wth sluggishness Indolence & Inactivity. the Patient is unable to stand or exercise himself as usual. These Symptoms are succeeded wth Paleness, which begins in the Extremities & tip of the nose. the Body now shrinks - the skin contracts - Rings fall from y^e Fingers - the



Red vessels disappear. the skin is
shrinked, but the nervous papillae
project like Goose flesh. the Body
is now cold to the Touch especially the
Feet. this sense of Cold is attended
^{the} w: creeping thrills ⁱⁿ w: are felt chiefly
in the back. this Cold is attended w:
Tremors - Rigors ⁱⁿ w: are most vi-
olent in those parts where ~~the~~ are
least supported as in ^{the} Lower Jaw.
- now a Heat begins to spread itself
from the Praecordia to every part of
the Body. the Tremors cease. the Co-
lor & Fulness of the surface of ^{the} Body
return - the face becomes red. &

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flushed wth Heat. a sweat now breaks out
beginning in the Face, & gradually
extending itself all over the Body. the
sweat after a while ceases. & y^e Body
returns to its usual state except y^t
a Debility remains for some time
after the Fever. This Paroxysm as
thus described has been divided in-
to several stages. such as the
Cold Fitt - the hot Fitt - & the
time of sweat, or in other words
y^e Stadia Frigoris - Caloris & Sudoris.
The Limits of these Fitts are not
accurately defined. there are other
Circumstances to be taken into our

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Consideration such as the state of
the Pulse ^{is} in the cold Fitt is weak
& irregular. in the hot Fitt it be-
comes stronger, fuller & more regular,
but is manifestly contracted & hard.
as the Heat advances, the Pulse
increases in Fullness & Force.
when the sweat breaks out, the
Pulse becomes more full but soft
& when the sweat ~~goes~~ ^{goes} off y^e Pulse
returns to its usual state.

The Respiration in the cold Fitt
is small & labourious. in the
hot Fitt it is less frequent & more
easy, & as the sweating Fitt returns

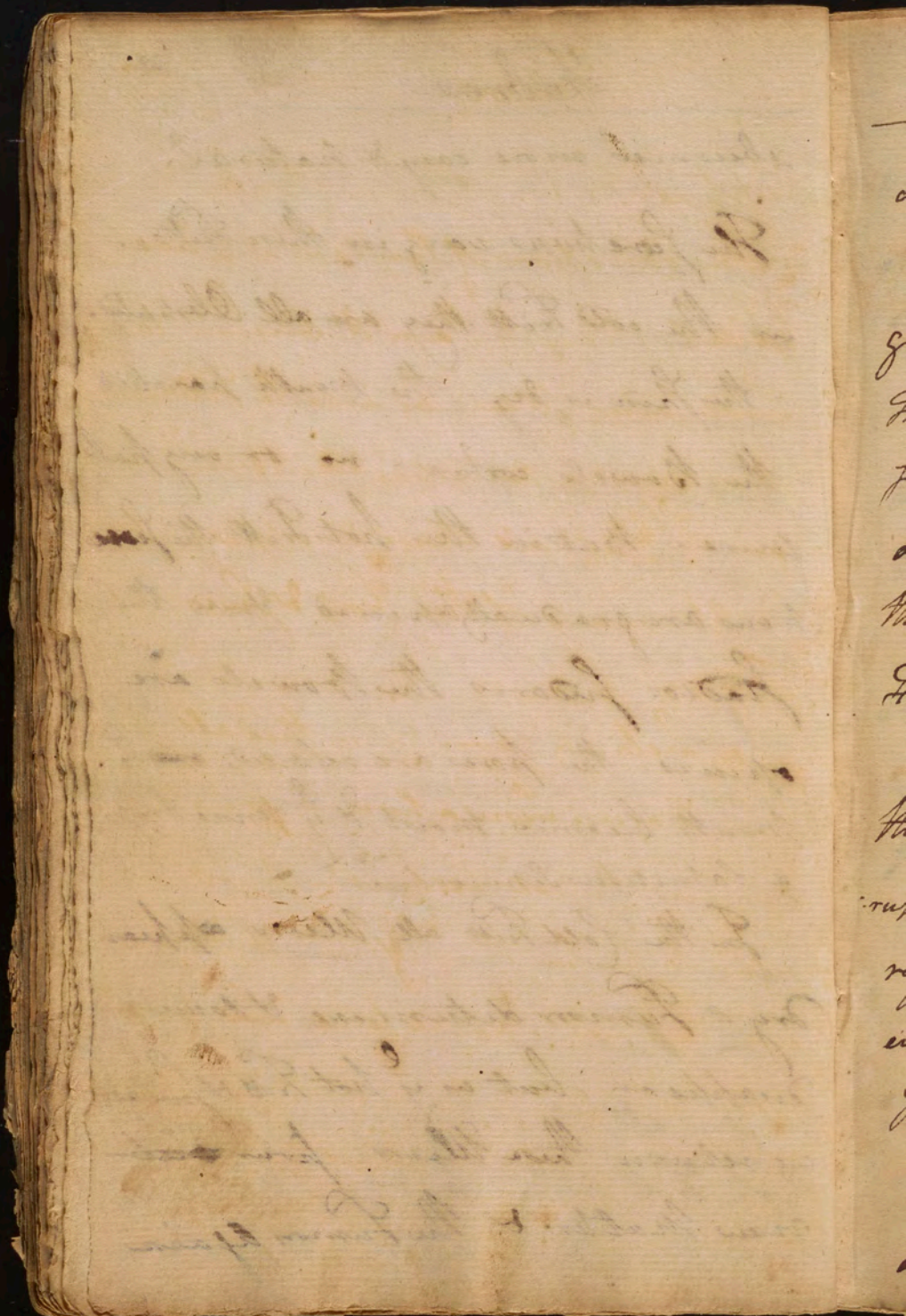
I have been thinking of you
 when the first broke out, the
 first because you are the
 first to whom the first goes off of the
 first to whom the first goes off of the

The President has in the 18th of
 June at 12 o'clock in the
 day of the 18th of June at 12 o'clock
 in the day of the 18th of June at 12 o'clock
 in the day of the 18th of June at 12 o'clock

it becomes more easy & natural.

The functions vary in these Fevers.
 in the cold Fever they are all Obstructed.
 - the Skin is dry - the Mouth parched -
 - the Bowels costive - no or very pale
 urine - But in the hot Fever the func-
tions are gradually opened & in the
Stadio fuloris the Bowels are
 opened - the pores are relaxed, ~~and~~ [&] ~~the~~
 Mouth becomes moist, & [&] urine drops ⁱⁿ
 a copious Sediment.

In the Cold Fever all Ulcers appear to
 dry - Tumors detumescere & some
 disappear, but as y^e hot Fever & sweat-
 ing return these Ulcers pour ^{out} ~~out~~
 new Matter & the Tumor again

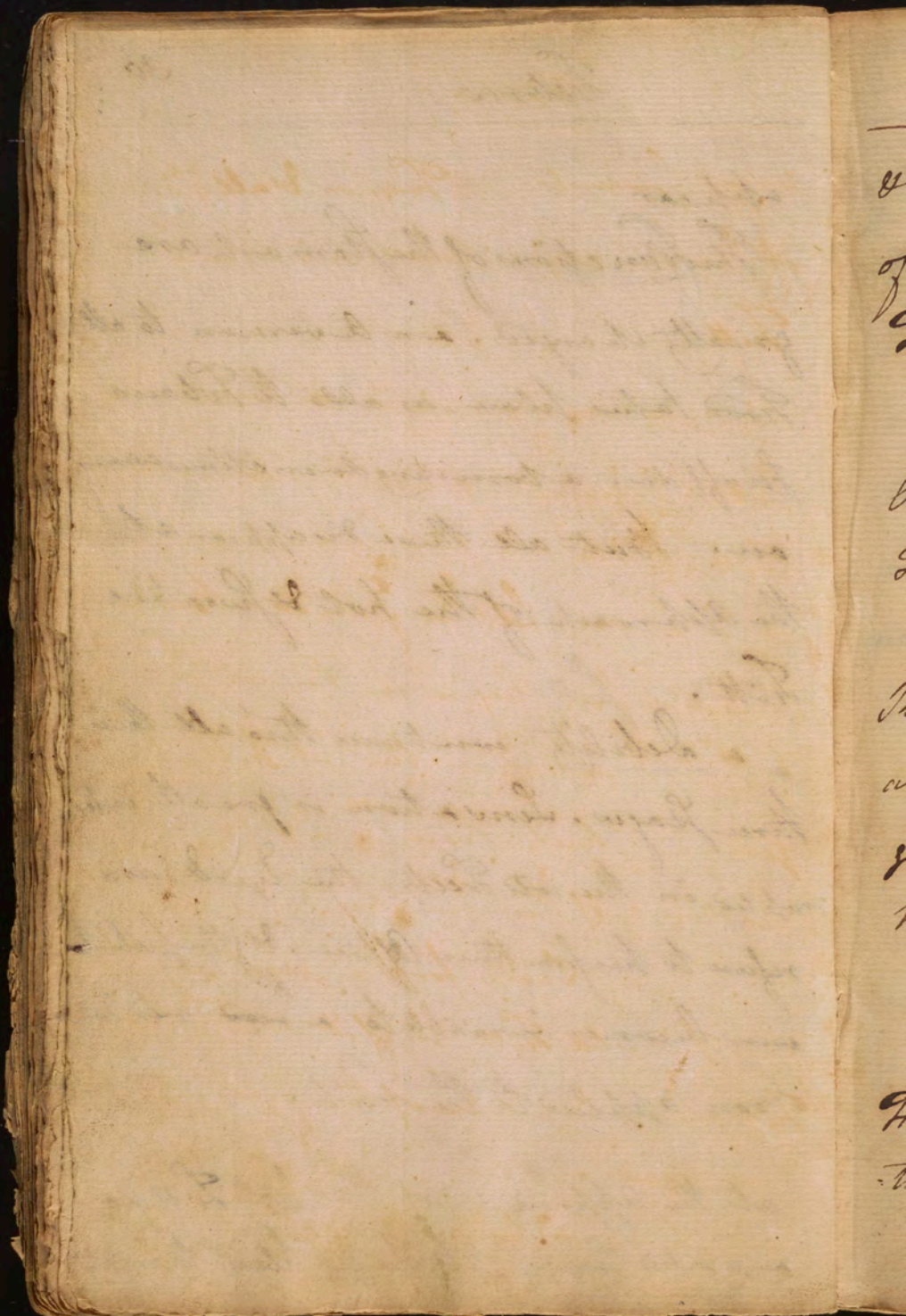


appear

The Functions of the Stomach are greatly changed. an Aversion to all Food takes place, as also to Tobacco &c. a vomiting sometimes comes on. But all these disappear at the Approach of the hot & sweating Litt.

a Debility continues thro all these three Stages. Sensation is greatly interrupted in the cold Feet. the Eyes & Ears refuse to perform their Office. & the patient even becomes insensible to a ~~red~~ red hot Iron applied to the Feet.

at the Approach of the hot Litt &c a morbid Sensibility takes place to Light



etc. Convulsive Tremor, & all Train
of nervous Symptoms appear in ^{the} cold
Fitt.

Thirst is common to all these 3 Stages
but is generally greatest during the hot
Fitt.

Pains are felt in ^{the} Head - Back &
Knees. they begin in the cold Fitt but
are most violent in the hot Fitt, &
generally keep pace wth Delirium & a
throbbing of the Temples.

Death for the most part hap-
pens in the cold Fitt, or if it is in ^{the} hot
Fitt some Symptoms of the cold Fitt re-
turn again.

These Symptoms are all greatly diver-

Reverend

My dear Sir
I have the honor to acknowledge
the receipt of your letter of the
10th inst. and in reply to inform
you that the same has been
forwarded to the proper
authorities for their consideration.
I am, Sir, very respectfully,
Your obedient servant,
J. H. [Signature]

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ified all Idiopathic Fevers have generally more than one or two of these Paroxysms if they terminate in an entire Apyrexia they are called Intermittent, but if they do not they are called Remittent. if it is difficult to distinguish the Apyrexia they are called Continuals.

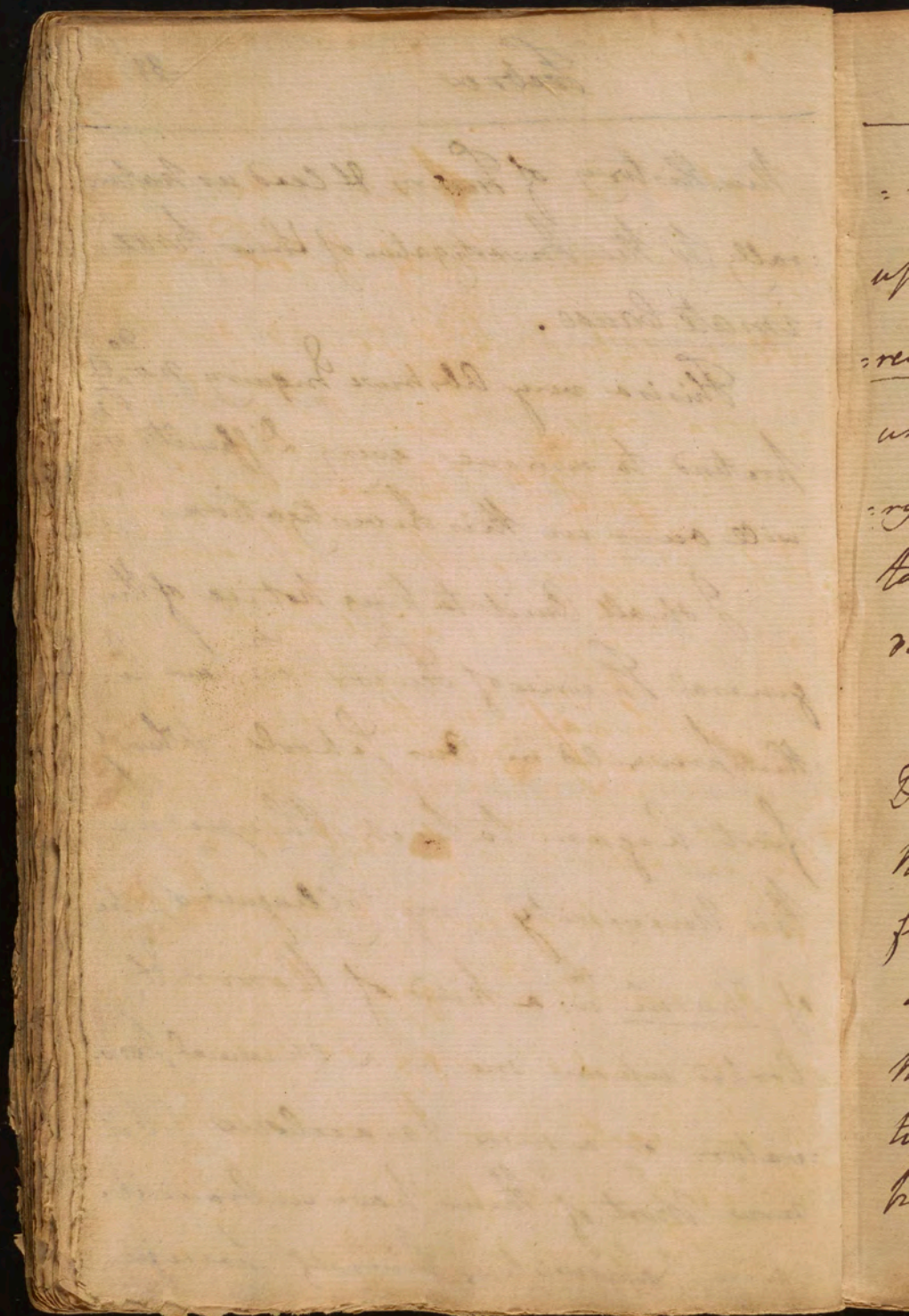
Fevers are likewise distinguished by the Circumstances of the ~~Paroxysm~~ Paroxysm - the Pulse. Respiration & Tremor vary in the cold ^{the} with the Sensations. the Heat & Thirst vary in the hot ^{the} with the whole ^{the} Gangliferous System.

These are the general Facts in

the History of Fevers & lead us natu:
rally to the Investigation of their prox:
imate Cause.

This is a very Abstract Inquiry nor ^{do} I
pretend to remove every Difficulty y:
will occur in this Investigation.

I shall omit taking notice of the
general Theories of Fevers th w: have hi:
thru: prevailed in our Schools. When I
first began to teach Physics in
this University my Colleagues spoke
of Phasma th w: a kind of Horror, &
looked upon me as a chemical Pro:
vator or a mere Paracelsus, but
now most of them have embraced it.
even vanswieten himself has reje:



ted the notion of Fevers depending upon an Affection of the Fluids. Boerhaave & Hoffman first pointed out to us that Fevers depended on ^e primary Affection of the nerves, but I shall take no notice of their Opinions, & deliver my own as plain as I can.

The Lapsitude the Frigor - the Drowsiness & Coma all show us that the Sensorium is ~~is~~ Affected in the first Attack of Fever, & depend upon a diminished Energy of ^e Sensorium. This diminished Energy extends even to the Heart hence the small weak pulse & the paleness of ^e Skin.

The Blood vessels especially the

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Arteries are contracted distant from
the action of the Heart, & while $\frac{2}{3}$ Extre-
mities of the Arteries are contracted, hence
the Suppression & Obstruction of all the
Secretions. This Constriction may be
accounted for from the simple Plas-
tinity or Contractility of the Extremities
of the Arteries without having Recourse
to an increased Influx from $\frac{2}{3}$ Sensorium.
- While the ~~blood~~ small Arteries are
thus contracted the Blood is accumu-
lated in the larger Arteries hence the
difficult Respiration &c which we spoke
off before. The Increased action of $\frac{2}{3}$ Heart
does not depend upon $\frac{2}{3}$ stimulus of this
accumulated Quantity of Blood, for its sensi-
bility is greatly diminished. —

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These Phenomena are succeeded by
 a considerable Increase of the Hearts
 Action. the Pulse becomes stronger &
 fuller, & this is occasioned, ^{in some measure} by cold
 Leth. But in w. Manner? This is a
 very Difficult Question. we must refer it
 to the vis Naturo Medicatrix ^{ch} w. Dispo-
 ses the System to recover its Balance when
 destroyed. I do not suppose this vis Naturo
 Medicatrix depends upon ^e action of a
 rational Intelligent principle, nor upon a
 mixed Action of the Soul & Body as ^{Dr} Gaubius
^{has done} ~~supposes~~ Imagin that it
 depends merely upon the
 Mechanical Operation of our Constitution
 & flows from w. is called physical heurpity.
 2nd this ^{Phenomenon} ~~Dation~~ may be illustrated by

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a familiar Analogy. Sedatives take off the Excitement of the Sensorium but when taken in a moderate Degree rather excite the action of ^{the} Sensorium which tends to remove the sedative Impressions induced by the narcotic medicines.

Does The diminished Circulation of ^{the} Blood in the small Arteries induce Cold, and a Constriction? ^{Does} this sensation of ~~the~~ Cold produce the Reaction of the Sensorium? ^{has been maintained} This ~~is~~ ^{is} from Cold exciting them: increased ~~the~~ action of the System, & inducing all the Phenomena of Fever. Cold there ^{must} be a necessary step in exciting the increased action of the System. ^{But} Some Doubts

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may be offered to this Conjecture. all
cutaneous Hemorrhages are preceded th w a
sense of Horror & Cold. now Hemor-
rhages are generally attended th w Coups: in
tion. this is most evident in y face
before the Eruption of Blood from y
nose. After Child Birth too we see a
Fever attend the Congestions th w: are formed
in the Breasts previous to y Lactation of
Milk. we see Congestions in y Rheumatism
& Angina before the Horror & Other
Symptoms of Fever come on. I have
seen a bilious or calculous Constriction
bring on the Symptoms of Fever. in all
these Cases ~~the~~ Congestion the Lenoirius
was excited to remove an uneasy Sensation

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Now all this tends to show γ : γ Reaction
of the Sensorium does not depend upon
Cold, but that the Phenomena of Fever
depend upon the Reaction of γ Sensorium
already begun. hence we often see ~~the~~
Fever exacerbated without any cold Pitt.

- But why does the cold Pitt do often &
necessarily intervene? - I do not think it
a necessary Intervention altho' it is conducive
to bring on the Symptoms of Fever especially
the increased Action of the Heart & Arteries
& hence the Reason why cold Bathing has
been found so useful in certain States of
Fever. The Cold then is rather a part
of the hot Pitt, & occurs in γ Reaction
of the Sensorium in w. γ hot Pitt exists.

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This is the Reason why the more violent ² of Cold Pitt is, the sooner the Pitt is ~~is~~ formed, & the sooner the Perspiration is terminated by sweat, & why ² of most dangerous Fevers are generally ushered in wth little or no Chilly Pitt. Permitting Fevers where no Dyspnoea appears are more dangerous than Intermitting Fevers from the Circumstance of their being attended wth no cold Pitt. Those Accessions of Fevers w^{ch} prove critical are always introduced by an evident Cold Pitt. I conclude then that the Cold Pitt of Fever depends entirely upon the Reaction of ² the sensorium.

I do not pretend to explain any further the Reason of the cold Pitt. we must refer

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it to a general Law of the System, or to
the vires nature medicatrices. it depends
we said on the Reaction of γ Sensorium.

The Sensorium is a Centre of Motion, but
has no motion in itself. all γ Actions of
the Sensorium then arise from Impres-
sions made on it, so that ~~the~~ every Action of
the Sensorium ought to ^{be} considered only
as a Reaction. to illustrate this still further
we must consider the Operation of Seda-
tives in a more extensive manner. Seda-
tives then do not act on γ Centre or inmost
part of the Sensorium, but act partially
only. the part then on ^{wh} they do not act
reacts again in a short time, & thus
restores the whole to an Equilibrium.

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The Resistance to be overcome by
 the Lessorium when γ^2 Cold is induced
 is a Spasm on the Extremities of the
 Capillary Arteries. an Atonia of these
 vessels disposes to the Production of
 this Spasm ^{the} Atonia is not on by the
 want of Antagonist power or the Blood
 being propelled in to them. this Atonia
 is always greatest in proportion to the
 Distance of any part from the Heart, hence
 the Reason why the surface of γ^2 Skin is
 the chief Seat of Spasm. this Spasm continues
 for a considerable time during the hot Litt.
 I am & suppose ~~this Spasm~~ ^{it} constitutes
 the Fever & that when this ^{is} overcome the
 Fever is cured. this was formerly my

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Opinion, but we often see a Debility
& want of Excitement [&] in y^e Nervium
precede the Spasm, ~~&~~ this must be
removed before we cure Fevers. The
hot Pitt is bred on by the Spasm &
is supported by it, it is therefore a
necessary Intervention in y^e Cure of
Fever. The Spasm then is not y^e dis-
ease itself altho' the Cure of Fevers depends
upon the Removal of it. The Spasm then
is neither the fundamental Disease nor yet
the Removal of it, but is the Effect of the
first & Cause of the last. Fevers there-
fore consist of 3 parts Debility - Spasm &
increased Action or hot Pitt. I will not

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say how Debility brings on Spasm or
how Spasm brings on a hot Litt.

The Continuance of each these are establi-
shed by certain Laws of the Oeconomy.

— The first Reaction of the Sensorium will
be in encreasing the Action of $\frac{1}{2}$ Heart
& Arteries. This will react on the
Sensorium & contribute towards its
Excitement which enables it at last
to overcome the Resistance on $\frac{1}{2}$ Extremi-
ties of the Arteries. The whole Cure of
Fever then consists in restoring the Energy
of the Sensorium. it begins to its Reaction
itself; this we prove from the Phenomena of
Syncope, but a proper State of Excitement
is bro't on by the Action of $\frac{1}{2}$ Heart &
Arteries.

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This finishes our proximate Cause of Fevers.
We have found it consist of 3 parts Debility Spasm & Hot Pitt. They all depend
on each Other & succeed each Other in
the Order I have mentioned. The first induces
the second, & the second the last. I do
not say each of these stages we have been
speaking of subist separately. They often ex-
ist all at Once and are confounded with
each Other. Fevers then consist in 1st an en-
creased Heat, 2nd increased pulse when they follow
Honor or a Chilly Pitt. ~~But~~ ^{for} unless they
are preceded by this, they cannot belong
to the Class of Pyrexia.

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The Spasm may arise from many Causes on w^{ch} the variety of Fevers ~~are~~ depend. It may depend ^{1st} upon Congestion i.e. an Afflux of greater quantity of Fluids than can be transmitted thro' ^{the} Blood-vessels. This kind of Spasm occurs in Hemorrhages. 2^d upon acid Matter poured upon ~~the~~ the Extremities of the Nerves as in ^{the} ~~the~~ Rheumatism. But I doubt whether Spasm takes place here. a Congestion is formed I grant w^{ch} may perhaps occasion a Spasm not only in the part where ^{the} Crispation appears but all over the System. I now turn now to consider our first Order or what is properly called Fever.

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It is the different states of Debility ⁱⁿ Spasm
 & hot ⁱⁿ cold occasions the different genera
 of Fevers. the Duration of each paroxysm of
 Fever depends upon the nature of the
 Spasm. a Fever is seldom terminated by one
 Paroxysm ⁱⁿ w: depend upon the Lakes ⁱⁿ w:
 first indeed the Fever still continuing in ^{the}
 System. here I must define two Terms
 viz: Interval & Intermission. the Interval
 is from ^{the} Beginning of One Fitt to ^{the} Commence-
 ment of another the Intermission from ^{the} End
 of One Fitt to ^{the} Beginning of Another.
 The Shorter the Paroxysm the longer the
 Interval, & the shorter the Interval
 the longer the Paroxysm. Thus the parox-
 -ism of a Quotidian is 10 hours. of a

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Tertian 8, & of a Quartan 6 hours. I
 speak this at a medium. there may be
~~very~~ many Exceptions to it. there are ma-
 ny causes w^{ch} protract then paroxysms.

thus a Febr may be protracted beyond 24
 hours, & in this case the Fever loses y^e
 name of an Intermittent. there can there-
 fore be no Intermittent if a Paroxysm con-
 tinues beyond 24 hours. Our System is perpetu-
 ally undergoing Change. the vital principle
 in the Liversium is always rising & falling
 in its Oscillations, but appears to be in
 its two Extremes. Once at least in the
 24 hours. This must be resolved into the
 vicissitudes of Sleeping & Waking. any Laves

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then disposing to Fever will from these
 Revolutions of our System be liable to in-
 duce a Return of a Fever again. hence we
 find they generally return at one period
 - thus Quotidians come on in $\frac{1}{2}$ morning
 - Tertians about noon - & Quartans in $\frac{1}{2}$
 afternoon. Every Paroxysm then of Fever
 must run its Course in the 24 hours &
 suffer at least some Remission. unless
 of Intermission intervenes in $\frac{1}{2}$ 24 hours
 & ^{they} cannot occur at all, but from $\frac{1}{2}$ some
 of Habit & $\frac{1}{2}$ vicissitudes we spoke of the Fever
 goes on to be renewed every 24 hours. but
 this seldom happens, & therefore I believe
 there is no such thing as Continual Fever. -

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This I assert from Observation as well
as from Reasoning a priori. This there-
fore shows the Propriety of w: we said before.
the longer the Paroxysm the shorter the
Interval & vice versa. The Continuance
of a Paroxysm will depend too upon the
greater or less action of the Spasm. &
this will be influenced by Debility in its
different Degrees. the greater the Debility the
less the Spasm - Chilly Pitt - Honor - Trueness
&c. this Case occurs in the nervous or
Malignant Fever. but in Intermittents
the Debility is less - the Spasm more active
& hence the Paroxysm becomes shorter.

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Let us now consider Pyrexia as
accompanied wth Phlegmasia. here is
no Debility taking place. the Spasm is
generally proportioned to the Irritation.

But why is not each Paroxysm in
this Case terminated sooner? Because the
Congestion occasioning the Spasm is
not easily removed. hence all Inflamm^y
Fever are of the continual kind. in the
Congestions preceding Hemorrhages the
Pyrexia always continues till the
Congestion is removed. In the Congestions
tending to suppuration the Pyrexia cea-
ses when the Fluids are effused but not
before as then only if Congestion is removed.

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The Inflammatory Spasm (for such I shall call it) differs widely from ^{the} Inter-
mittent Spasm in not being attended w:
so great Horror - Tremor. The Inflamm:
Spasm is often topical, & consists in an
increased action of the vessels near to ^{the} place
where the Congestion is formed. This Spasm
communicates an Inflamm:ⁿ Diathesis
to the whole Arterial System. But in
Inflammatory Fever, the Action of the
Lusorium is communicated chiefly to the
Heart primarily ~~not~~ [&] not to ^{the} Arteries as
in the Case of the Phlegmania. In every
Spasm there are 2 circumstances to be con-
sidered viz Constriction & Irritation.

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The 1st produces the last, in such a manner as to stimulate the Sensorium ^{or} reacts again upon the Arterial System. - These are not always proportioned to each other. When the Constriction is more violent than $\frac{1}{2}$ Irritation the Paroxysm will be long, the Reverse Case gives shorter paroxysms. The violent Constriction occurs in Inflamⁿ: Fevers. hence Intermitting Fevers when they partake of the Inflamⁿ: Disthesis are so easily changed into contin^t: Fevers. Every Irritation applied to the Arterial System increases the Spasm in an equal Degree. Thus Cold excites Inflamⁿ: in the Arterial System, & of such

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a Degree as to be difficultly resolved. This then gives us another view of ² Reason why some Paroxysms of Fevers are longer than Others.

Here a natural Question occurs. if a Pyrexia arises ^{(tho'} not from Debility or Phlegmonia) what shall we call it? Such a Fever is excited by cold-bathing. But this a transitory Affection & should not be admitted so as to form an Order. If ever it is permanent ^{It} is accompanied w: Lurp sine or Fever, but this being, it back to the Fevers arising from Debility or arising from Congestion being previously formed before the Body is ~~exposed~~ ^{exposed} to Cold. Do not direct Stimuli produce

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Purpura? if they do it is by first ex-
 citing Congestion ⁱⁿ w: reduces it to the
 Phlegmania. But ^{what} shall we say
 to ^{Exercise} Insolation & various acrid Stimu-
 li taken into the body? I much doubt
 whether such Stimuli act directly in
 producing Fever. They produce a Debility
 which disposes the body to be affected w:
 Fever. The Insolation acts by exciting
 topical Inflammation. acrid Substances
 thrown inwardly produce general Conges-
 tions & therefore the Inflam? Spasm.

does not induce ~~or~~ or an inordinate
 Quantity of Food produce Fever? I
 shall answer this Question hereafter

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I conclude therefore that there is no
Foundation for establishing a new
Order of Pyrexia distinct from Debility or
Congestion. a moderate Degree of De-
bility wth any Irritating Cause ~~it~~ induces
~~the~~ a Spasm w^{ch} irritates the Heart
only & produces Inflamⁿ? Fevers. &c.

I believe there are but two kinds
of Spasm viz: the Inflamⁿ? Spasm
& that arising from Debility alone.

The Spasm in the nervous Fevers don't de-
pend on Debility alone. great Debility
occurs in Interm^{it}? Fevers. I suspect
therefore that all nervous Fevers have

§ This is confirmed by an Observa-
tion of Dr. Cleghorn who tells us
y² in all Inter³ Twins w^h became
continual he discovered evident
Marks of Inflammⁿ after Death.
Dr. Pingle's Dissections tend to confirm
the same Opinion. —

something of the Inflamⁿ? Diathesis
 - most of the putrid Diseases show
 us marks of Inflammation before &
 after Death. This may arise from
 Contagion acting as sedative & inducing
 Debility & as Stimulaⁿ? & thus inducing
 Inflammation. Some of them begin w:
 Inflamⁿ? Appearances, but from repeated
 paroxysms change into the nervous.
 Intermittents sometimes begin w: In-
 flamⁿ? Symptoms, but as ~~this~~ this
 Inflamⁿ? Diathesis goes off they become
 more regularly intermitting, all ~~of~~ ^{the}
 then of long Continuum are attended with
 more or less of the Inflamⁿ? Diathesis.

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Intermitting Fevers are the Only ones where
no Inflamⁿ? Diathesis appears. From this
then we derive a very general Division
of Fevers. may not Contin^l? Fevers depend
on Debility alone? no - where Inflamⁿ?
Fevers become Remitt^g? or continual. It is
owing to some stimulus being applied. It
may perhaps in some cases form a Remitt-
ing Fever, but never can form a contin-
one. It is then the Absence or Presence
of the Diathesis Phlogistica that gives us
the difference of Intermitting or continual
Fevers. It were to be wished we could
distinguish Intermitting & continual
Fevers from each other at their first

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Approach. the general marks of
 an Intermitte^d Fever are 1st an Epid^e.
 :mic Constitution of the Year 2nd from $\frac{2}{7}$
 greater Degree of Latitude 3rd from $\frac{2}{7}$
 longer Continuance of the cold Litt^e
~~4th~~ 4th from a quantity of Bile being
 discharged during the Litt^e. This may
 depend upon the long Continuance of
 the Phlegm determining the Blood to
 the Viscera, more especially to the Liver w^{ch}
 promotes an increased Secretion of Bile
 which ^{we know} by vomiting. 5th from $\frac{2}{7}$ Degree
 of Remission which is always longer $\frac{2}{7}$
 in Continual Fevers. This mark is always

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more certain when the Urine drops
 a latitious Sediment, as this shows
 that the Grasm is taken off from the
 Extremities: 6th from the Exacerbation
 in Intermitt. Fevers are always
 attended wth more Horror than in Contin.
 : als. we are more surely determined
 that a Fever is Intermitt. when y^e
 Exacerbation appears in the Morning
 . But sh^d the Exacerbation happen at
 any other time of the day it does not
 follow y^e. It is not intermitting. Not-
 withstanding all these Marks Intermittents
 may so far resemble continual Fevers
 as to change their very nature in some.

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[Faint, illegible handwriting on the right page of an open manuscript. The text appears to be a continuous paragraph or list of items, but the ink is too light to transcribe accurately.]

that they require a very different Treatment as we shall say hereafter. Let us now enquire into ^e Circumstances ^{we} give a Presumption of a Fever being continual. These are ^{1st} the Fevers having arisen from Causes of Inflammation whether Occasional or predisposing. the ~~latter~~ ^{former} Causes occur in cold Climates & Seasons. the latter are Stimuli of all kind. to these we may add warm weather succeeding Cold - Irritating - high seasoned Food &c.

2nd the actual Symptoms of Inflammatory Diathesis such as a hard pulse. high

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would not ^{the} want any Sediment
& size Blood. none of these occur for
the most part in Intermittents. these

Distinctions will appear of great Con-
sequence when we come to ^{the} Cure of these
Fever.

I admit then of but two Genera of
Fever the Continual & Intermitting.

The Continual are such as are without
any remarkable Remission.

The Intermitt are such as are attended
^{the} w: evident Remissions & have a Horror
attending their exacerbations. The last of
these marks I grant is not very absolute on
universal.

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Let us now attend to the Subdivision
of these Fevers.

The Continuals I said were attended th w:
Diathesis Phlogistica. But they are greatly
varied by different Degrees of Debility.

Some of them ~~of~~ are ushered in wth this
Debility - by great Stupor - Coma - vo-
miting - low weak & slow pulse. These are
what are called by English Physicians
Nervous Fevers. The slow pulse is not
essential to this Fever, nor yet ² its mode-
rate Degree of Heat wth Sanvaze takes
in to the Character of this Fever. These
Marks apply however in general to
all ² Gravities of Typhus in Sanvaze.

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The Frequency of Pulse when very low
is Pathognomonic of the Nervous Fever
& always indicates great Debility.

The Inflammatory Fevers are
attended wth less Debility - less affec-
tion of the Linsorium & more of
the Diathesis Phlogistica. to distinguish
these from the pure Phlegmasia I
shall call them Dynosha.

Some Fevers are synochous in ^e
Beginning & typhous in their End.
- This depends upon ^e Repetitions of
Paroxysms w^{ch} increases Debility. we
find that every increased state of

The history of the city of London
in the reign of the late King
Charles the Second
The first part of the history
of the city of London
from the first settlement
of the city to the year
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The second part of the history
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from the year 1660 to the
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The third part of the history
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from the year 1688 to the
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year 1890
The twenty-first part of the history
of the city of London
from the year 1890 to the
year 1901

Excitement ~~was~~ ~~brings on~~
Debility. this is evident in the case
of flux ^{ch} succeeds Exercise or
every thing ^{ch} excites the Funerium.

- But topical Affections of $\frac{1}{2}$ Brain ^{ch}
are produced in $\frac{1}{2}$ progress of Fevers
may have a considerable share in
inducing Debility. we ~~had~~ want a
term to explain this intermediate state
of Fevers between the Synocha & Typhus.

what shall we say to putrid
Fevers? ~~they~~ are the tendency of our
Fluids to Putrefaction occurs in
Inflamatⁿ Remitting - & Inter.

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with Fevers. no Distinction of them
 can be taken from Putrefaction.
 all Fevers from increased Heat-
 motion & Debility tend towards Pu-
 trefaction, but those Fevers w:^{ch} are cal-
 l'd Putrid may be distinguished from
 common Fevers. the putrid Conta-
 gion generally affects in such a
 manner as to appear most in
 continued Fevers, & those too of the
 nervous kind from the sedative power
 of the Contagion. Putrid Fevers
 likewise begin w:th inflammaⁿ symptoms
 from y^e Contagion's acting primarily

[Faint, illegible handwriting on aged paper, likely bleed-through from the reverse side.]

[Faint, illegible handwriting on the adjacent page, visible on the right edge.]

as a Stimulus. - After a while
these Fevers become nervous which
may arise from $\frac{1}{2}$ putrid Conta-
gion multiplying itself in such a
manner as to exert Sedative Effects.

- They are further distinguished
by great Debility - dissolved Blood -
Hemorrhages Petechia - high, con-
-sistent Urine - loose Stools & colligative
Sweats.

The Combination of the Inflamm:
th w: the nervous & putrid give the
most common Genus of Fevers.

We are often at a Loss to deter-

Letter

My dear friend
I have just received your letter of the 10th inst. and am
glad to hear from you. I am well and hope these few lines
will find you the same. I have been thinking much of late
of the state of the world and the future of our country.
I feel that we are in a critical position and that the
people are not fully awake to the danger. I hope that
you will be able to do something to help us in this
crisis. I am, my dear friend, very truly,
Your friend,
J. F. Johnson

mine whether Phlegmasia or Fever
are primary Diseases. They often
produce & succeed each other. to
distinguish these from one another
we must ^{at} attend to ^{the} season
of the Year. in the Spring the Phlegmasia
is the primary Disorder. in the
Fall the Fever. 2.nd If the Phlegmasia
appears some Days after the Fever
ever comes on I would conclude the
Fever to be the primary Disease, &
vice versa if the Fever comes on af-
ter the Phlegmasia. 3. Fever is
distinguished from Phlegmasia by the

This image shows a blank, aged, cream-colored page from a book. The paper has a textured appearance with visible fibers and some minor discoloration or foxing. Faint, illegible handwriting is visible across the page, likely from the reverse side or a previous page. The page is bound on the left edge, and the right edge shows the binding of the adjacent page.

Prevailing Symptoms of Debility
^{or} w: seldom or never occur in the
Phlegmasia. 4th The Phlegmasia is very
generally known to be a primary
Disease from the common Symptoms
of Inflammation.

5th Fever is distinguished by regu:
lar exacerbations ^{or} w: seldom or never
occur in Inflammatory Diseases.

There is another seeming
Complication of Fever ^{or} w: exanthemata.
These are sometimes excited by
Contagium & sometimes ~~by~~ are the
Consequence of Fever. The ~~Red~~ Patches
^{or} w: are Effusions of Blood do not

[Faint, illegible handwriting in cursive script, likely a letter or manuscript page.]

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belong to this ~~dis.~~ Order, but are
always Symptomatic & are generally
produced by Putrefaction. The small
pox & measles depend on Contagion
introduced, & therefore do not form
an Instance of the Complication we
are speaking of. There are ~~Other~~
warm Disputes carried on between
De Haën & some Other Physicians
in Vienna concerning these exanthema-
tous Fevers. The former supposes
that they depend on $\frac{2}{y}$ warm Regimen
only. The latter asserts that they depend
on Contagion in $\frac{2}{y}$ same manner

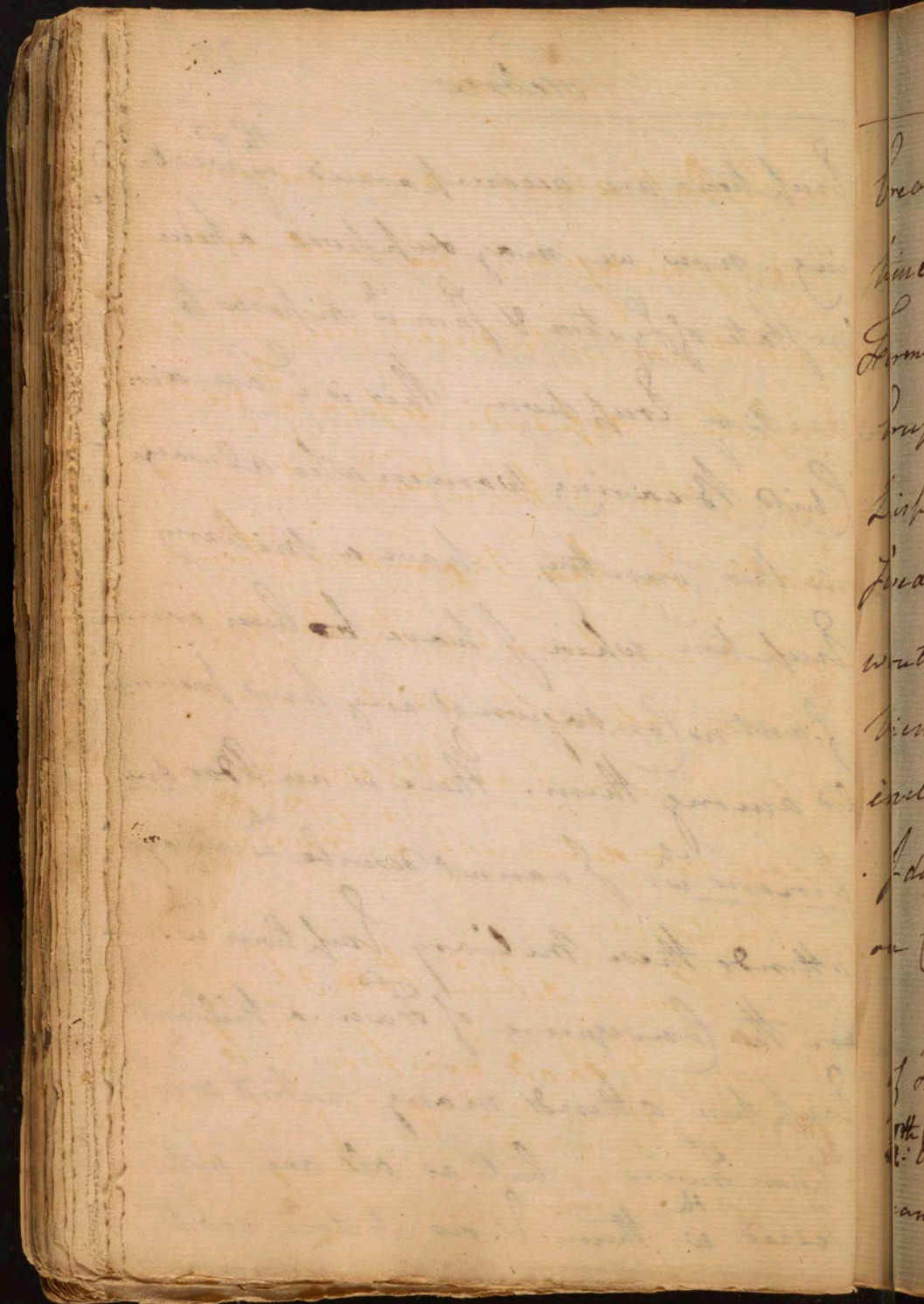
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[Faint, illegible handwriting on the right page of an open manuscript. The text is written in a cursive script and is mostly obscured by fading and bleed-through from the reverse side.]

as $\frac{2}{3}$ small pox. I do not think
that they are the Offspring of Fever
alone as De Haen imagines. They
are certainly of a contagious nature,
Notwithstanding they were never ob-
served till the last Century for many
Diseases have prevailed for many years
tho' not being described by Physicians. Still
I allow that many Fevers by a few
things Regimens may terminate in a
miliary Eruption. But this Eruption
never changes to an Opake purulent
Appearance like the pure Exanth-
emata. This Observation I grant is
liable to some Exceptions. all Miliary

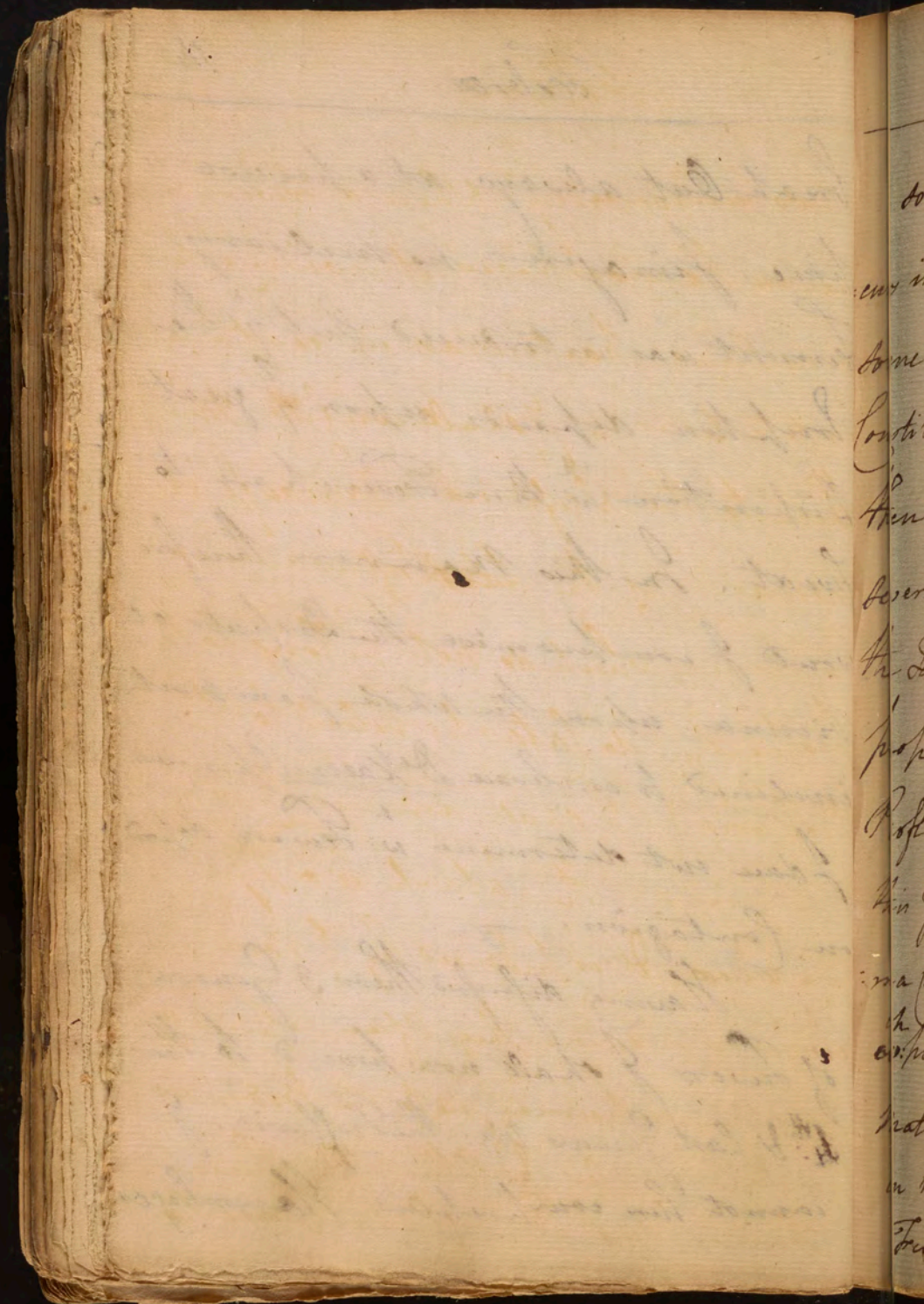
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Eruptions are accompanied th wth sweat-
ing. now we may suppose a pecu-
liar state of System & Skin wth disposes to
miliary Eruption. This is y^e Case in
Child Bearing women who always
in this Country have a miliary
Eruption when I have ~~been~~ con-
fident no Contagion of any kind prevail-
ed among them. There is an Order of
Genius wth I cannot describe wth always
attends these miliary Eruptions wth
are the Consequence of Fever. a miliary
Eruption attends many putrid con-
tagious Fevers, but as all are not
seized wth them, & as it does not

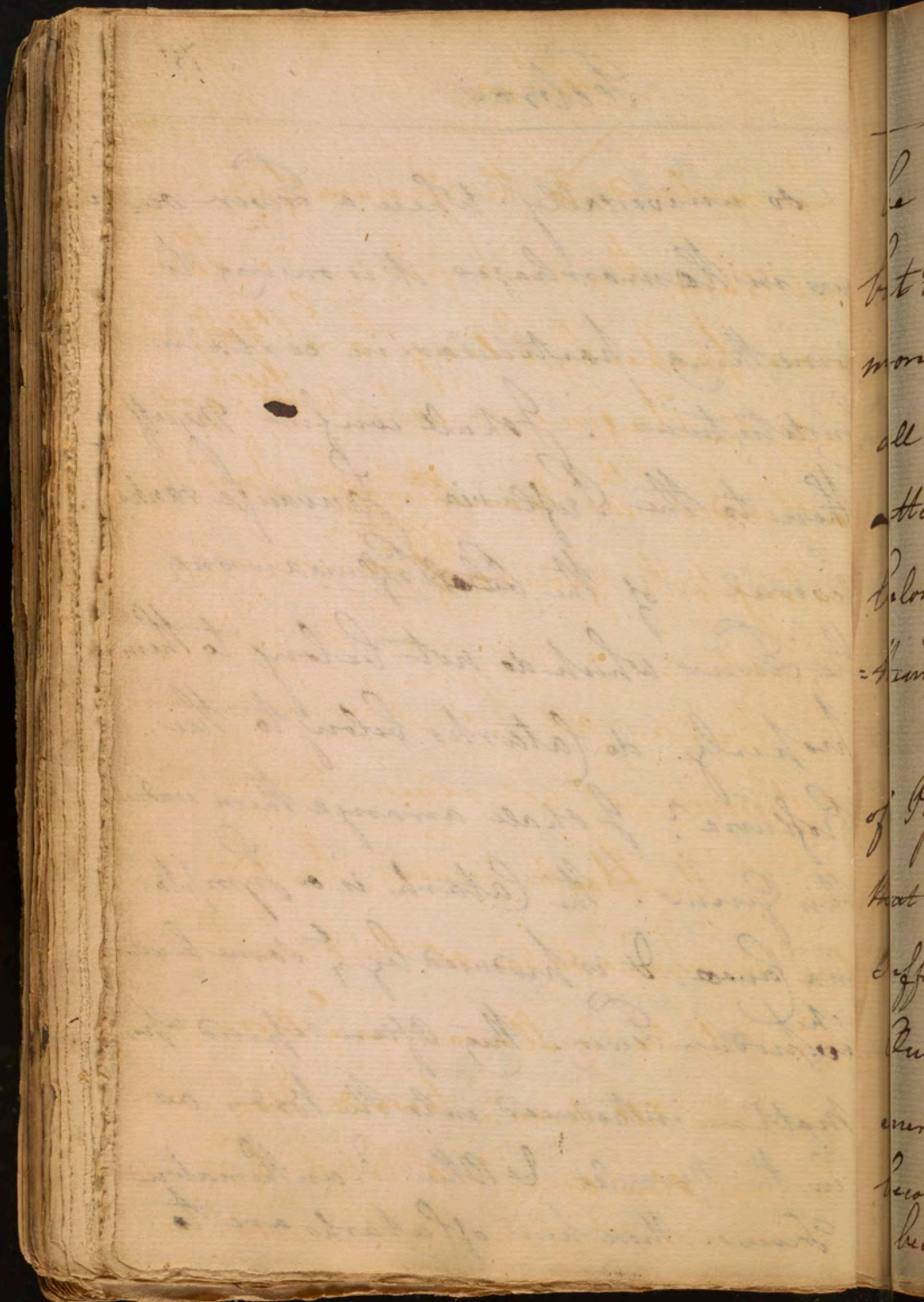


break Out always at a precise
time, finagim no military
Ferment was introduced but y^e the
eruption depends upon y^e great
Disposition w^h these Fevers have to
Sweat. In this manner therefore
would I compromise the Disputes at
Vienna. upon the whole I am most
inclined to embrace De Haen's Opinion
I dare not determine w^h Fevers depend
on Contagion. —

Having discussed these 3 Genera
of Fevers I shall now proceed to the
4th & last Genus viz: the Profluvia. I
cannot here comprehend Haemorrhages



so universally. When a Fever occurs in Hemorrhages it is owing to something particular in certain Constitutions. I shall confine myself then to the Pyrexia. Jarvis ranks several of the ~~Pyrexia~~ among the Fevers which do not belong to them properly. do Catarrhs belong to the Pyrexia? I shall arrange them under this Genus. The Catarrh is a Symptom. ^{causa} It is produced by the same causes ^{ch.} produce Fever. They often depend upon matter introduced into the body as in the Measles & other Exanthematic Fevers. These kind of Catarrhs are to



be resolved to the Genera of Fevers,
but when they arise from Cold they
more properly belong to ^{the} Profluvia.
all the Anginas Coughs & ^{such} are
attended w: Exanthematous Eruptions
belong to the Genera of Fever or Exan-
thematata.

Besides all these there is a Genus
of Pyrexia not yet reduced to any Order
that is the Heetic Fever. This Disease
suffers Exacerbations at the diurnal Periods
Our Pulse is slower in ^{the} Morning
increases till noon, towards Evening
becomes slow again & a little later
becomes quick. The Heetic Fever is

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increased remarkably at each of
 these Periods. Is there any Idiopa-
 thic Metic Fever? not connected
 wth topical Affection? no. It always
 arises from some topical Disease, &
 is never Idiopathic. Sometimes it
 is difficult to distinguish & point out
 the topical Affection, nor can we al-
 ways tell how it excites a Fever when
 we do perceive it, But from Ana-
 logy we may conclude the Metic Fever
 is always occasioned by ~~these~~ ^{the} upon
 the whole then I conclude y^e the
 Metic Fever ought not to be a separate

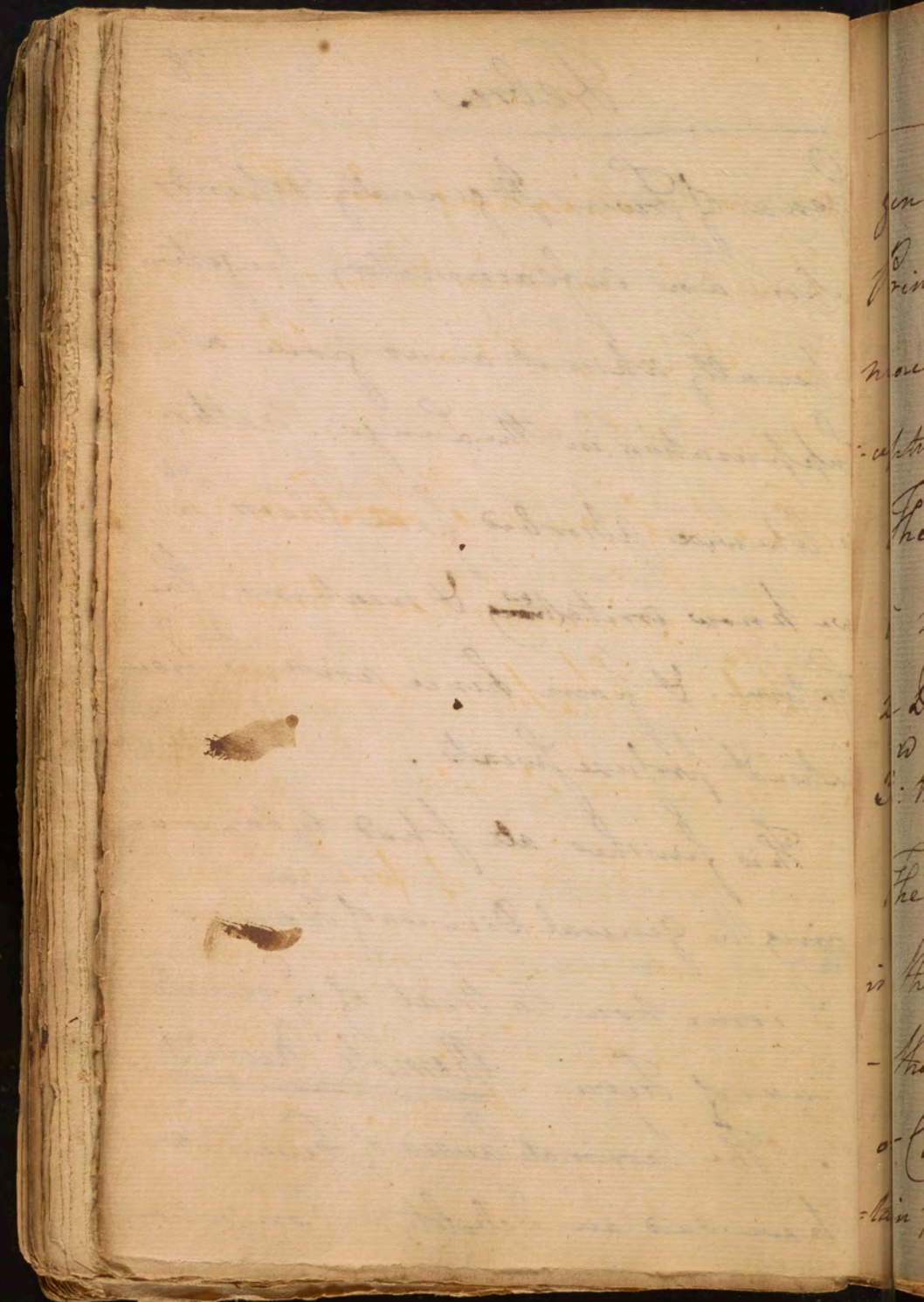
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Genus of Fever. It generally depends upon an inflammatory Congestion especially when it arises from a Suppuration in the Lungs. Matter is likewise absorbed from Ulcers ⁱⁿ w. we know irritating & weakens the System. & from hence arise ^{the} profuse sweats.

This finishes all I had to say concerning the general Division of Fevers.

I come now to treat of ^{the} remote Causes of Fevers. Remote Causes

The proximate Causes of Fever we have said are Debility & Congestion.



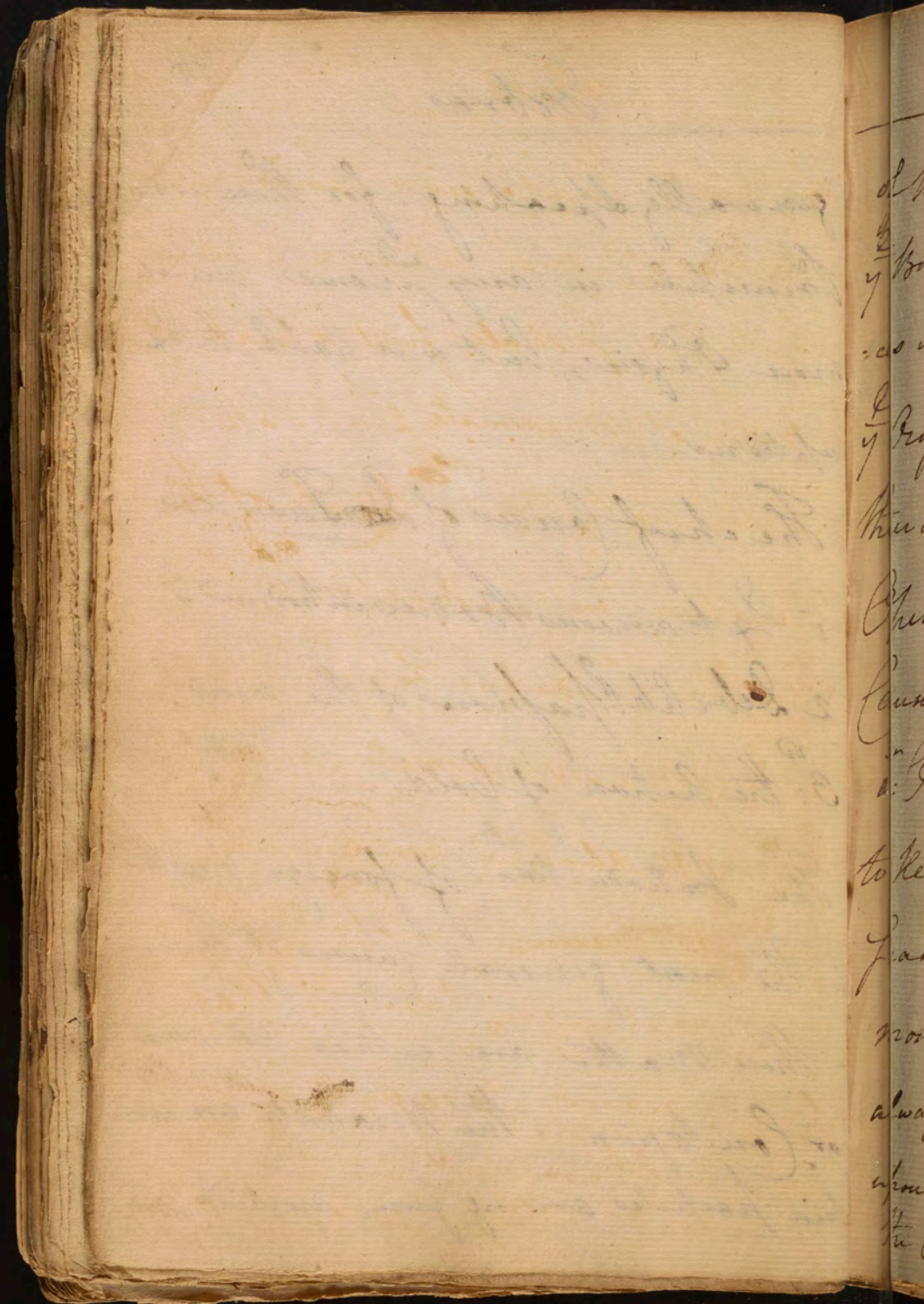
generally speaking. for there is no Principle in any science much more Physics, but w. is liable to 4. aptitudes.

The chief causes of ~~the~~ Fevers are

1. Extraneous Bodies introduced.
2. Debilitat.³ passions of the mind.
3. the action of Cold.

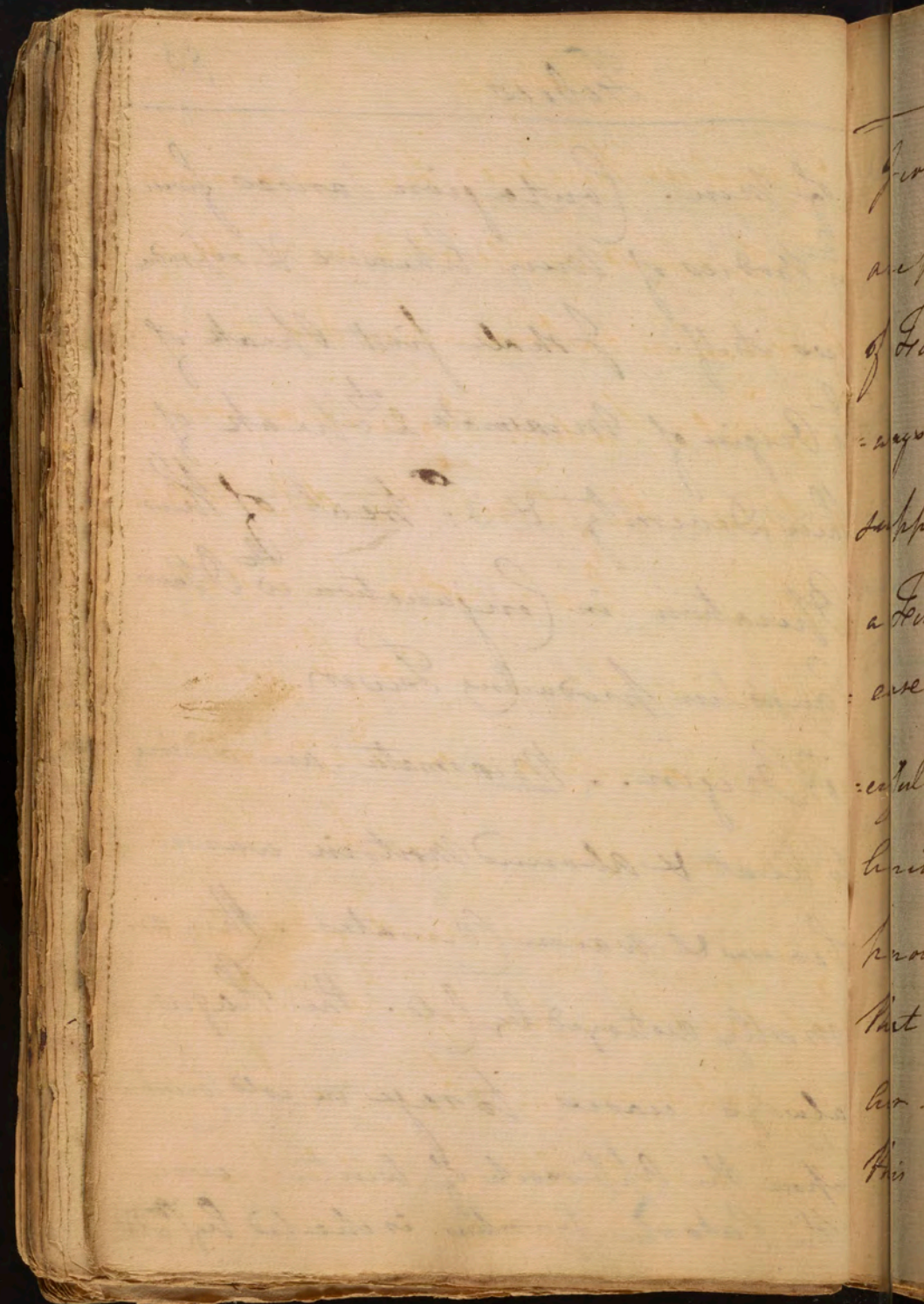
The Introduction of foreign Matter is the most general Cause of Fever.

- These matters are either Miasmata or Contagion. The Miasmata are certain particles arising from morbid bodies

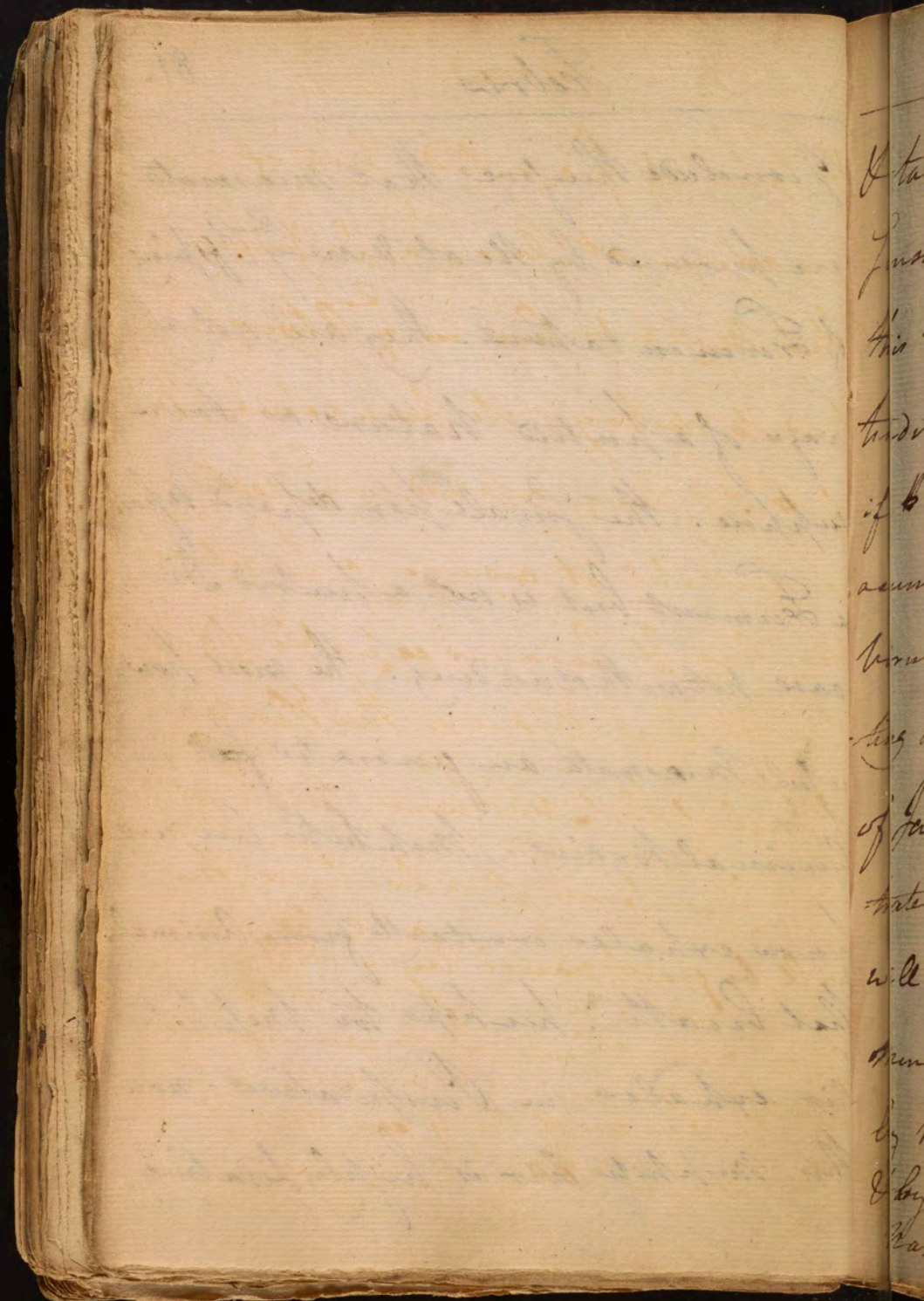


of men. Contagion arises from
2
y Bodies of men likewise & reprodu:
ces itself. I shall first speak of
1
y Origin of Miasmata 2: ^{only} speak of
their Diversity & 3: treat of their
Operation in Conjunction wth Other
Causes in producing Fever.

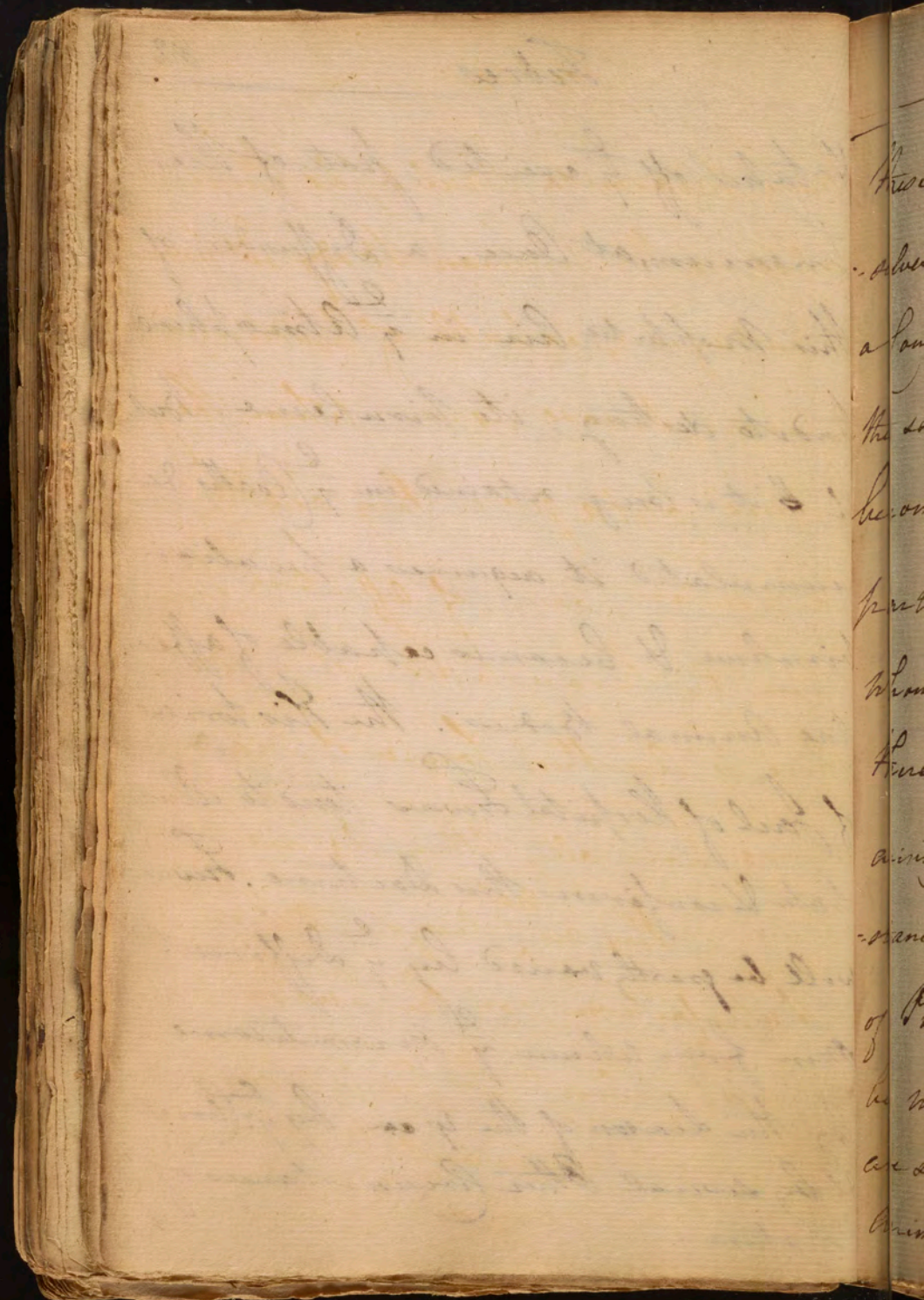
i. Origin. - Miasmata are owing
to Heat & abound most in warm
Seasons & warm Climates. They are
mostly destroyed by Cold. The Plague
always ceases to rage in cold Countries
upon the Approach of Winter. even
the Catarrhus Synochus is checked by Cold.



I conclude therefore that miasmata
are produced by Heat & any Offspring
of Fermentation. They are not al-
ways of a putrid nature as some
suppose. The small pox depends upon
a Ferment but is not a putrid Dis-
ease notwithstanding. The most pow-
erful Miasmata are generated ~~for~~ in
animal Bodies. Mephitis Air we
know exhales constantly from Animals
that breathe. perhaps too Mephitis
Air exhales in Perspiration. now
this Mephitis Air is highly Sedative,



I take off $\frac{1}{2}$ excited state of the
 Linnæum, at Once. a Diffusion of
 this Mephitic Air in $\frac{1}{2}$ Atmosphere
 tends to destroy its virulence. But
 if ~~it~~ it is long retained in $\frac{1}{2}$ Cloaths &
 accumulated it acquires a peculiar
 virulence & becomes capable of affect-
 ing Animal Bodies. The Histories
 of Jail of Hospital Fevers tend to illus-
 trate & confirm this Doctrine. Fevers
 will be greatly varied by $\frac{1}{2}$ different
 Men from whence $\frac{1}{2}$ Miasmata come.
 by the season of the year by $\frac{1}{2}$ Climate
 & by several other circumstances of $\frac{1}{2}$
 Nature.



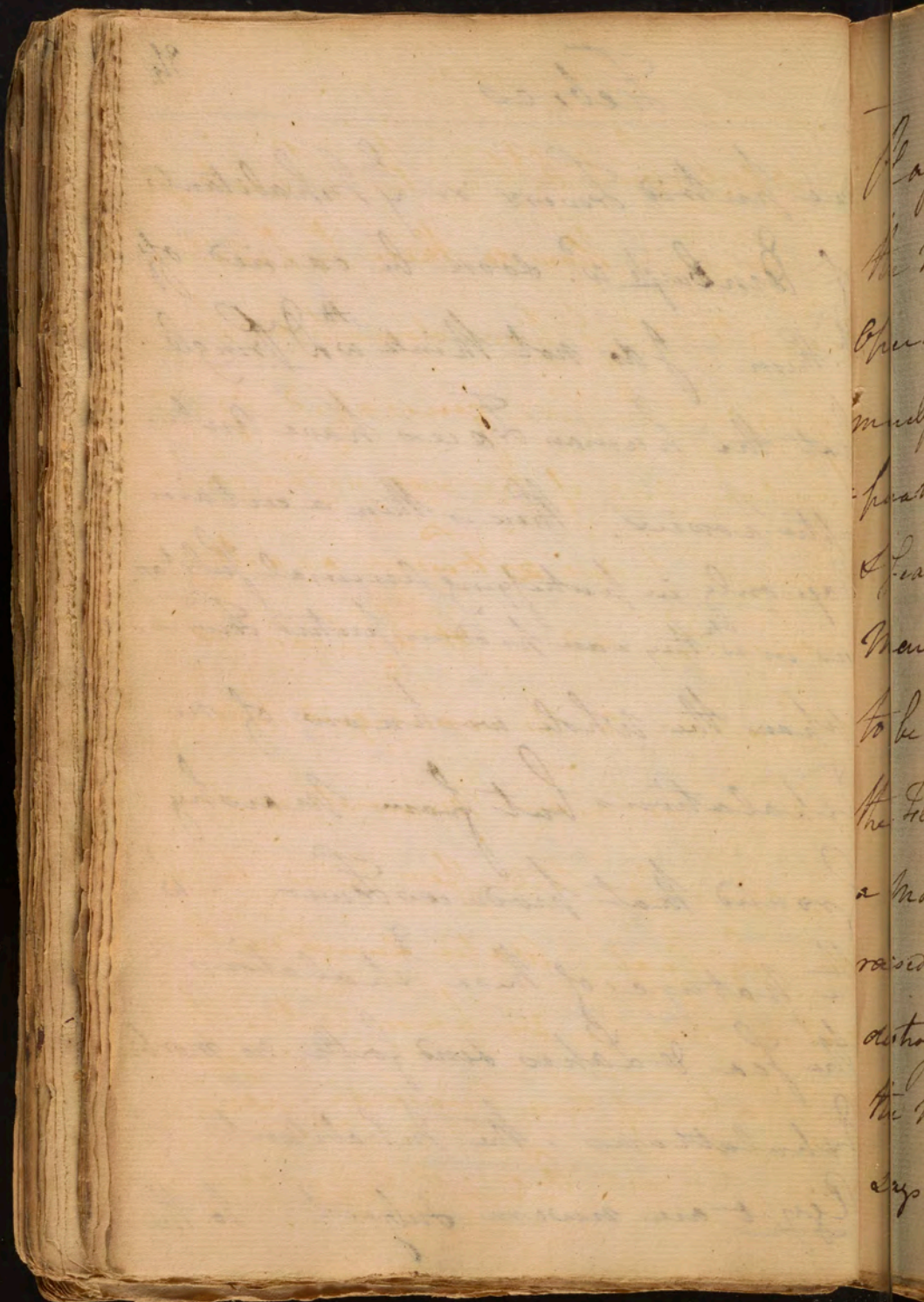
These Miasmata multiply them-
selves in the human body, & produce
a Contagion capable of producing
the same Disease again. When they
become Contagion they acquire a
particular power, of affecting those
whom the Miasmata did not. But
there is another source of Miasmata
arising from all other Animal Sub-
stances. They are ^{not} always the Offspring
of Putrefaction. or the Anatomists w:
be most subject to putrid Fevers who
are so much conversant wth putrid
Animal Bodies. nor do Excrements pro.

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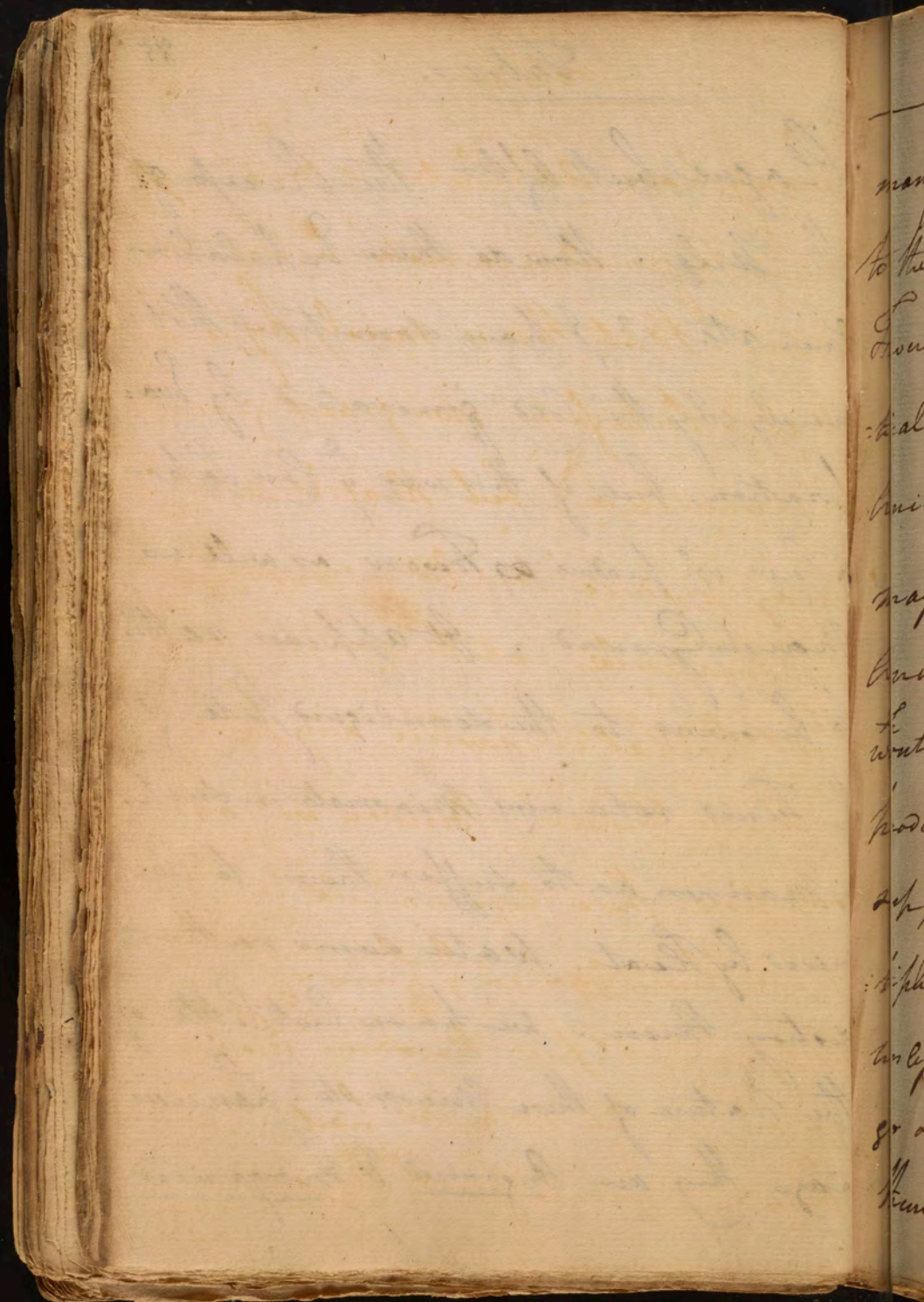
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and putrid Fevers or $\frac{1}{2}$ Inhabitants
of Edinburgh w^d. soon be carried off
by them. I do not think w^d. Dr. Pringle
that the human Laces have Anti-
reptic powers. There is then a certain
Stage only in putrefying Animal Substan-
ces in w^h. they can produce putrid Fevers.

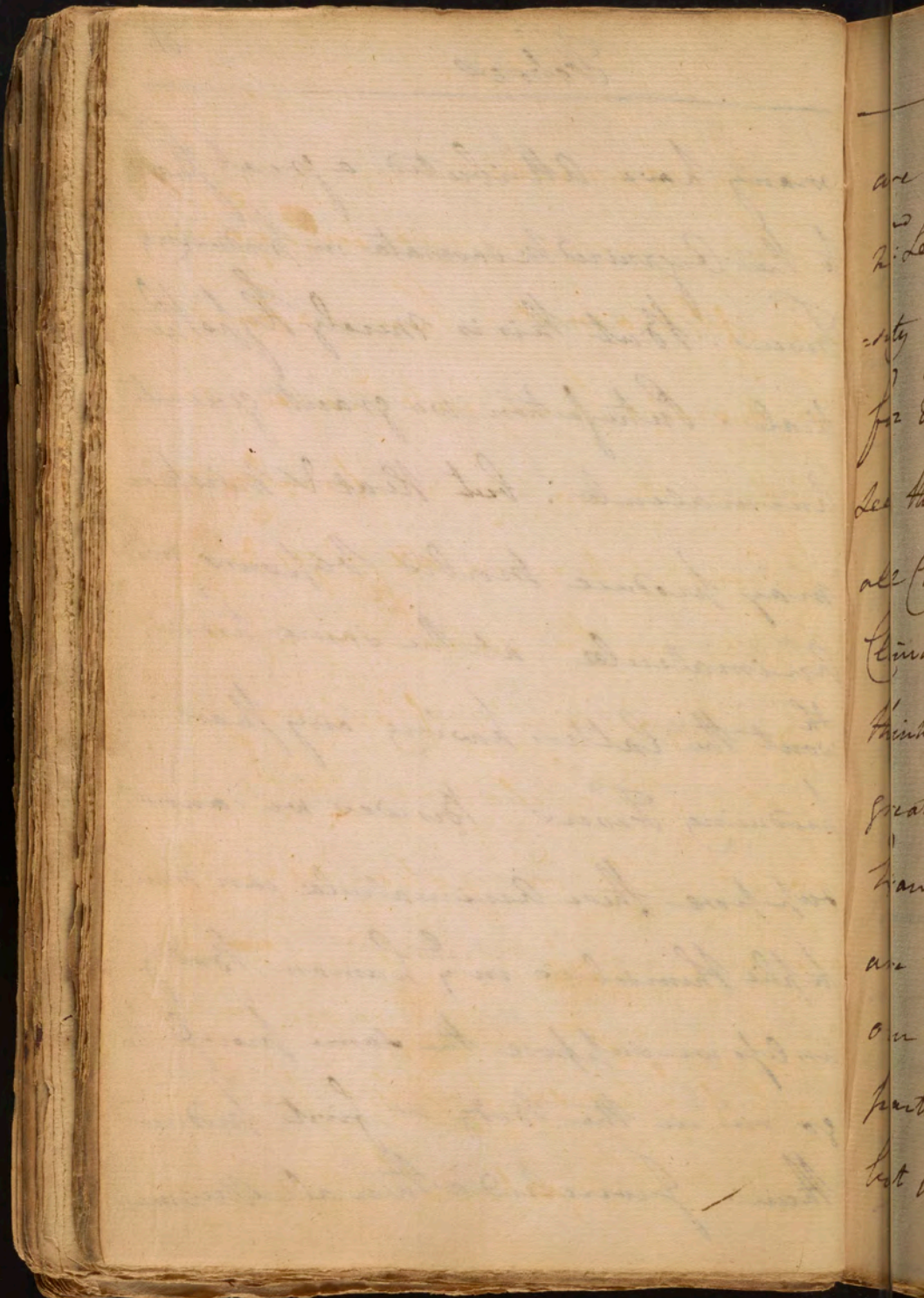
Upon the whole we know of no
Exhalations but from Marshy
Ground that produces Fever. w^h. is
the nature of these Exhalations?
the Sea & Lakes send forth no marked
Exhalations. the Inhabitants of
Egypt are never subject to the



Plague but after the Recap of
the Nile. How do these Exhalations
operate? I have sometimes thought
merely by the Cold generated by Eva-
poration, but if this was $\frac{2}{3}$ Low Lakes
& Seas w^d produce ~~as~~ Fevers as well as
Marshy Ground. It appears rather
to be owing to the semiliquid state of
the Fluid retaining Miasmata in such
a manner as to suffer them to be
raised by Heat. Water seems rather to
destroy them. we know but little of
the Nature of these Miasmata. Lancisi
says they are Organised & Inorganised

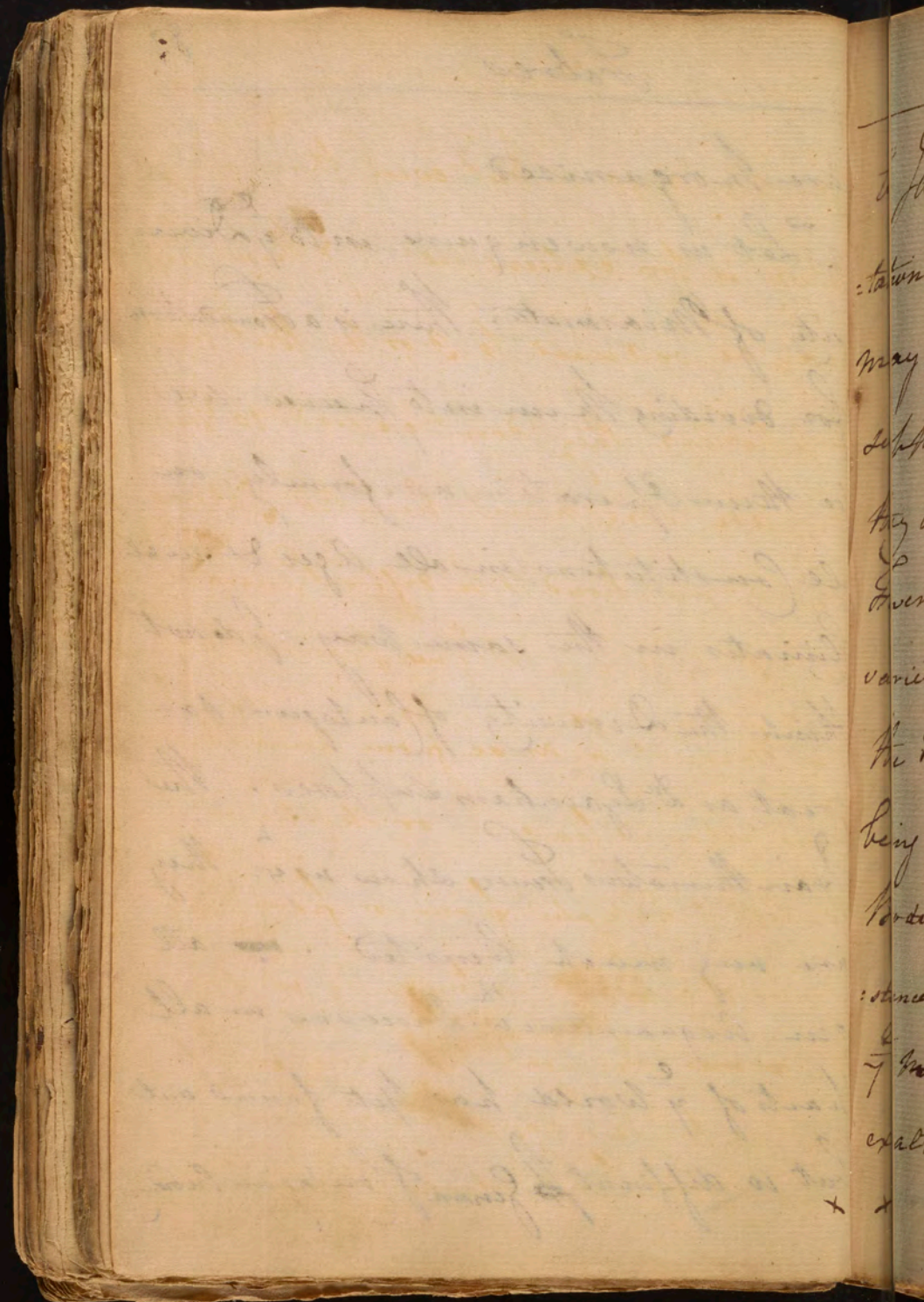


many have attributed a great share
to the Organised Miasmata in producing
Fever. But this is merely Hypothe-
tical. Putrefaction we grant generates
Animalcules. but Heat & Moisture
may produce morbid Vapours and
Animalcules at the same time,
tho' the latter, having any share in
producing Fevers. Besides we cannot
suppose these Animalcules can mul-
tiply themselves in $\frac{1}{4}$ Human Body
unless we suppose the same process to
go on in the Body as first produced
them. I conclude then all Miasmata



are Inorganised

2. Let us now enquire into ^{the} Diversity of Miasmata. There is a Foundation for dividing them into Fevers. we see them Operate uniformly on all Constitutions in all Ages & in all Climates in the same way. I do not think the Diversity of Contagions so great as Dr. Lidenham supposes. The Exanthematic Fevers show us ^{that} they are very much limited. ~~all~~ our Acquaintance th with Diseases in all parts of ^{the} world has yet found out but 10 different ~~of~~ Genera of Contagion breeding



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to Lavoisier. But even this Compu-
tation is too extensive. I think they
may be reduced to 3 or 4. But even
supposing they 'dant exceed 10 Genera
they are very much limited. many
Fevens supposed to be different Genera are
varied rather in Degree than kind from
the Ferments (w. arise from Anim. Bodies)
being retained longer or shorter in the
Bodies it exhaled from, or from Circum-
stances of a like nature. by w. means
of ~~more~~ Ferments are more or less
exacted to use ^{the} Language of our Schools.
x many Circumstances diversifie ^{the} Com-
: positions

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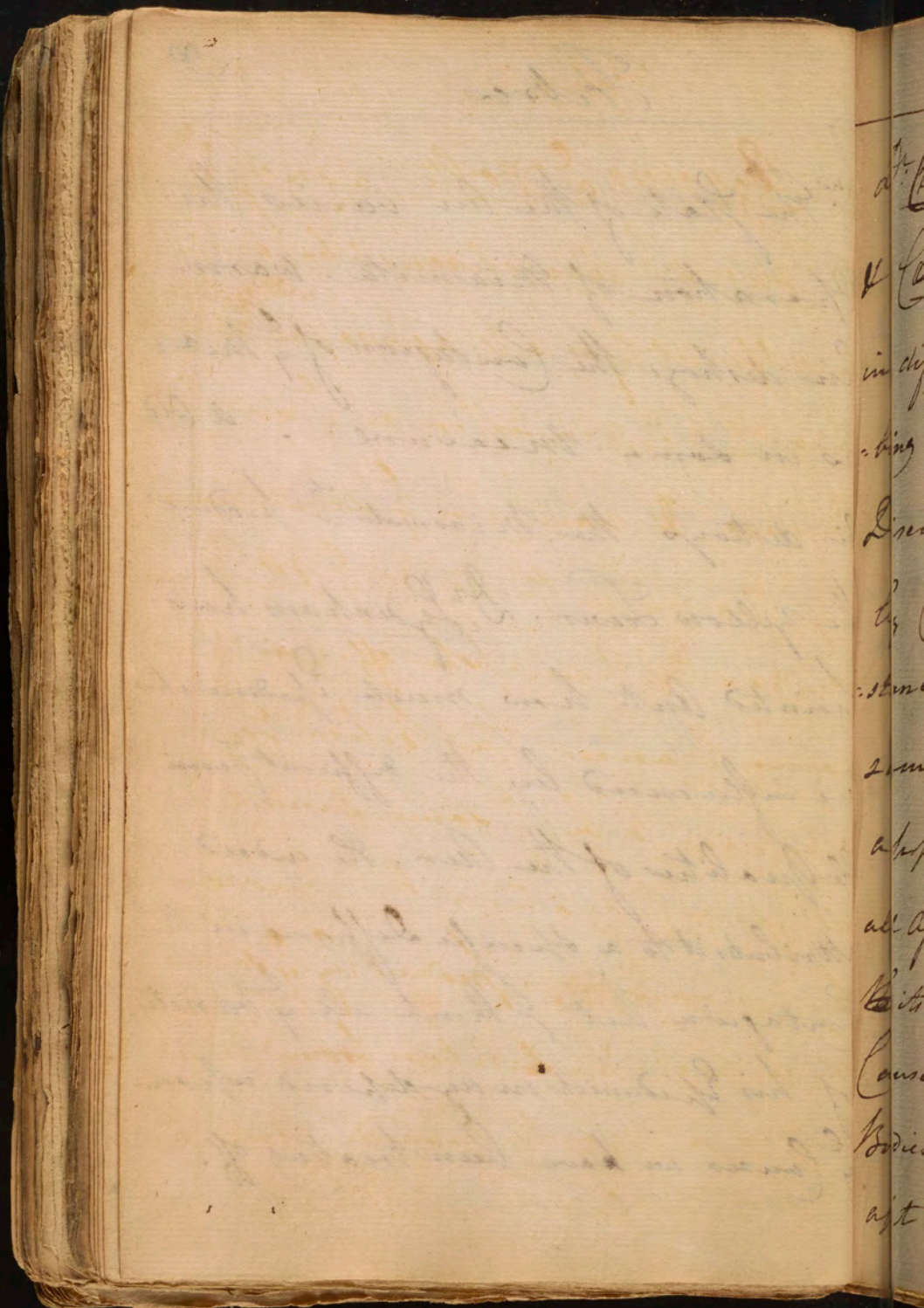
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independant of the different Degrees
of Virulence in the Contagion.
these Circumstances are ^{or} the
Constitution of the patient. This
is most evident in the Small pox. we
often see the same matter produce very
different pox in different Consti-
tutions. the nature of Epidemics shows
likewise how much ^e Diversity of
Contagions depends on ^e Difference of
Constitutions. Some of these Epidemics
we see affect Children only, some
men & women. While Others affect
Persons of a particular Country only.

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2nd The State of the Air varies the Operation of Miasmata. warm Air destroys the Contagion of $\frac{c}{y}$ Miasmas in some Measure. & cold Air destroys the Miasmatath produce the yellow Fever. Dr. Sydenham has pointed out how much Epidemics are influenced by the different Seasons. He Qualities of the Air. He indeed attributes it to a Specific Difference in the Contagion but I think all $\frac{c}{y}$ variety of his Epidemics may depend upon $\frac{c}{y}$ Causes we have been treating of.



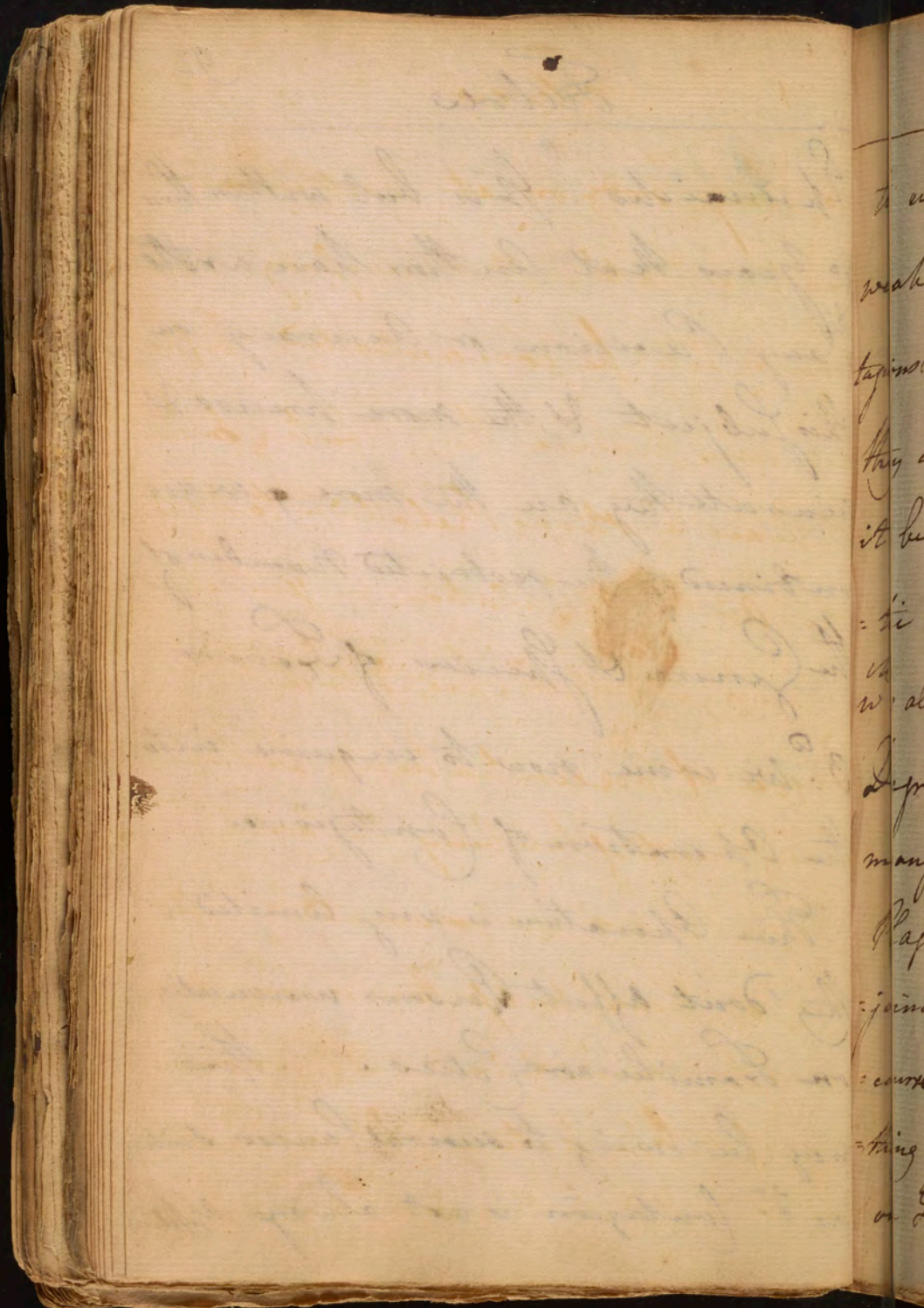
Dr. Bechornes Dr. Tofti Lancisi
& Celins Aesculianus who wrote
in different Ages all agree in descri-
bing the Festan Fever as $\frac{1}{y}$ same
Disease & varying in $\frac{1}{y}$ same manner
by Changes in the Air & $\frac{1}{y}$ other Circum-
stances we have spoke off. in the
same manner the Bilious Fever
appears to be $\frac{1}{y}$ same Disease in
all Ages & Climates. This I prove fr
its always being produced by $\frac{1}{y}$ same
Cause viz. Exhalations from Animal
Bodies or Marshy Ground. Books are
apt to mislead us in their Histories of

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Epidemics. It is but within these
100 years that Authors have wrote
^{but} any Precision or Accuracy on
this Subject & the more precise &
accurate they are the more we are
convinced of the restricted Number of
the Genera & Species of Fevers.

3.^o We come now to enquire into
the Operation of Contagions.

This Operation is very limited.
They dont affect Persons universally.
nor Families nor Cities. This
may be owing to several Causes such
as 1.^o Contagion is not always applied



to every body or at least in ~~too~~
weak a state. It is necessary Con-
tagions should be concentrated before
they can produce their Effects. In this
it bears a strong Relation to Mephi-
tic Air & Exhalations in general
^{or} always act in proportion to their
Degree of Concentration. we have
many proofs of this being the Case. the
Plague is not communicated to an ad-
joining House unless there is some Inter-
course by Furniture or Cloths or some-
thing of a like nature. Dr. Lind's Treatise
on Fevers & Infection is full of Facts

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of this kind. the Contagion must adhere to something in order to concentrate it sufficiently to be propagated. Physicians seldom convey Contagion merely because they stay too short a time in their Patients Chambers to carry away any Degree of particles with them. all this tends to show the Reason why so many escape Contagious Diseases while they are prevailing. But another Reason must be assigned why Persons escape Contagions who are exposed to it. Other powers must concur to give

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the Contagion in its full Force. w:
are these powers? the Passions of
Grief & Fear are the chief. hence
all Epidemics affect more Peo-
ple in their Beginning than after
they have continued for some time
upon y^e Acc^t: of Mankind being
more used to the Terror of them. we
see too those Persons most subject to
Epidemics who are most afraid of y:
- both these Passions act by inducing
Debility. Another power to be called
in is the action of Cold. Dr Lind's Book
is full of proofs of this. Does y^e Cold

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act by inducing Debility or a Spasm?

I shall show hereafter perhaps in both ways. Every thing else that tends to bring on Debility such as Venery - Insolation - Exercise -

Capula's &c tends to favour the Operation of Contagion. in all

Epidemics the Concurrence of these exciting Causes is necessary to promote the Operation of Contagion, & this is y

Reason why so many people escape contagious Diseases. Some Contagions

I grant act independant of these exciting Causes, such as y Small pox.

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In some Cases too it is difficult to tell
when the Concurrence of exciting
Causes is necessary. It will often depend
upon the virulence of the Contagion &
the Vigour of the System to w^{ch} they are
applied. It will be greatly influenced
likewise by Contagions affecting the Solids.
When Contagions act as Ferments they
require the Concurrence of no exciting
Causes. hence the universal power
of Exanthematic Contagions w^{ch} act as
Ferments upon the Blood. Those Ferments
w^{ch} have a less assimilating power require
the Assistance of the exciting Causes.
Even those Contagions w^{ch} act universally

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as Ferments may in some Cases require exciting Causes especially when they are not sufficiently concentrated.

3.rd Contagions are still further restricted by the Bodies being in certain Conditions capable of resisting their Operation. These Conditions occur in certain Ages - Sexes & Temperaments. & History of Epidemics is full of proofs of this Fact. the yellow Fever affects none but Foreigners. the negroes Dancing Sops are never subject to it. they must therefore have something in their Constitution ^{wh} resists the Operation of Contagium. Some Persons too are more disposed

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to particular Diseases than Others.

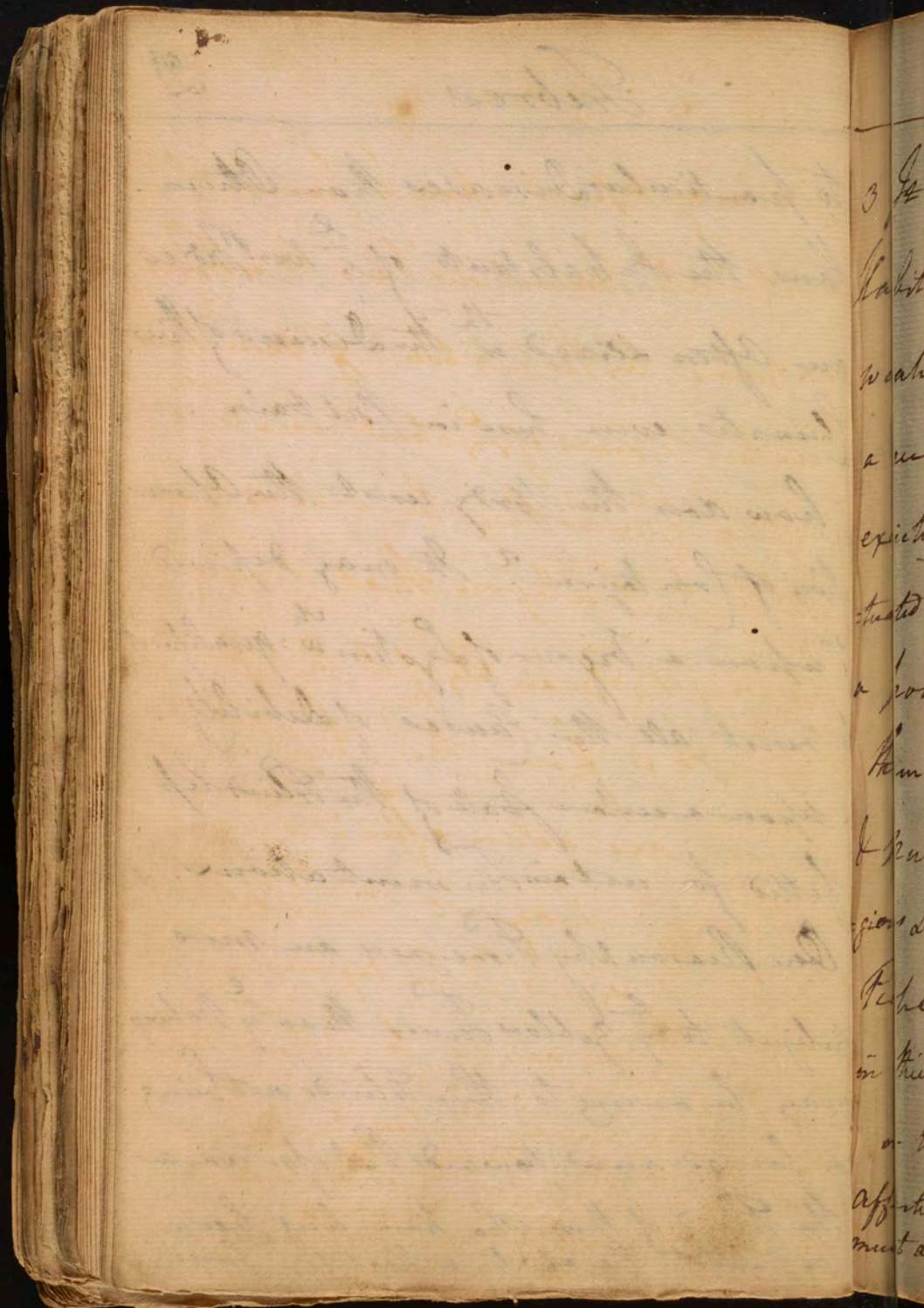
Thus the Inhabitants of $\frac{2}{3}$ West Indies
are often seized wth the Diseases of their
Climates even here in Britain.

How does the Body resist the Opera-
tion of Contagion? It may depend

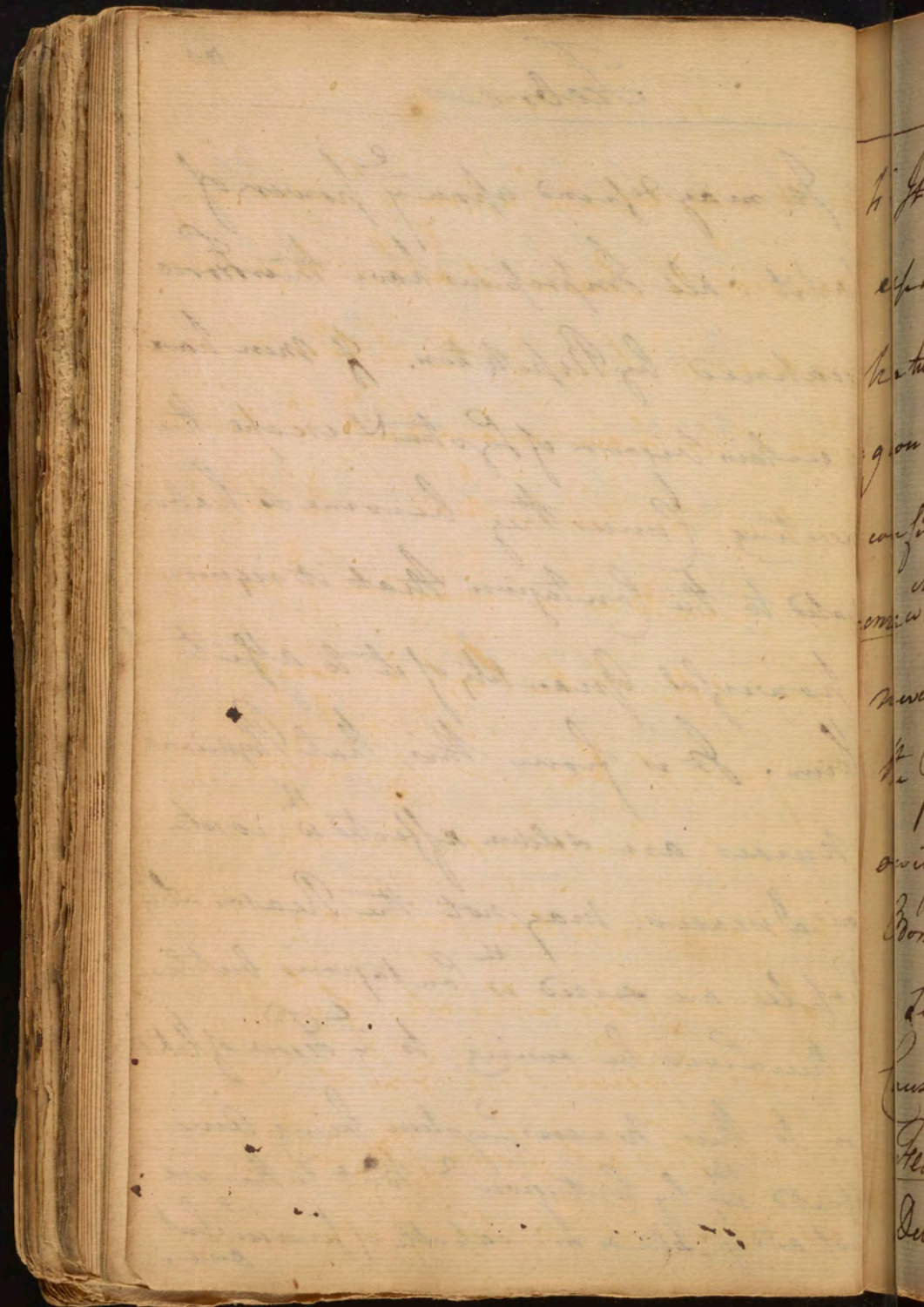
1st upon a Vigour of System w^{ch} qualifies it
to resist all the Causes of debility.

2^d Upon a certain State of the Fluids
fitted for certain Fermentations.

One Reason why Foreigners are more
subject to $\frac{2}{3}$ Yellow Fever than $\frac{2}{3}$ Natives
may be owing to their Fluids not being
so far advanced towards Putrefaction as
the Fluids of those who have long been
exposed to the excessive Heat of $\frac{2}{3}$ Sun.

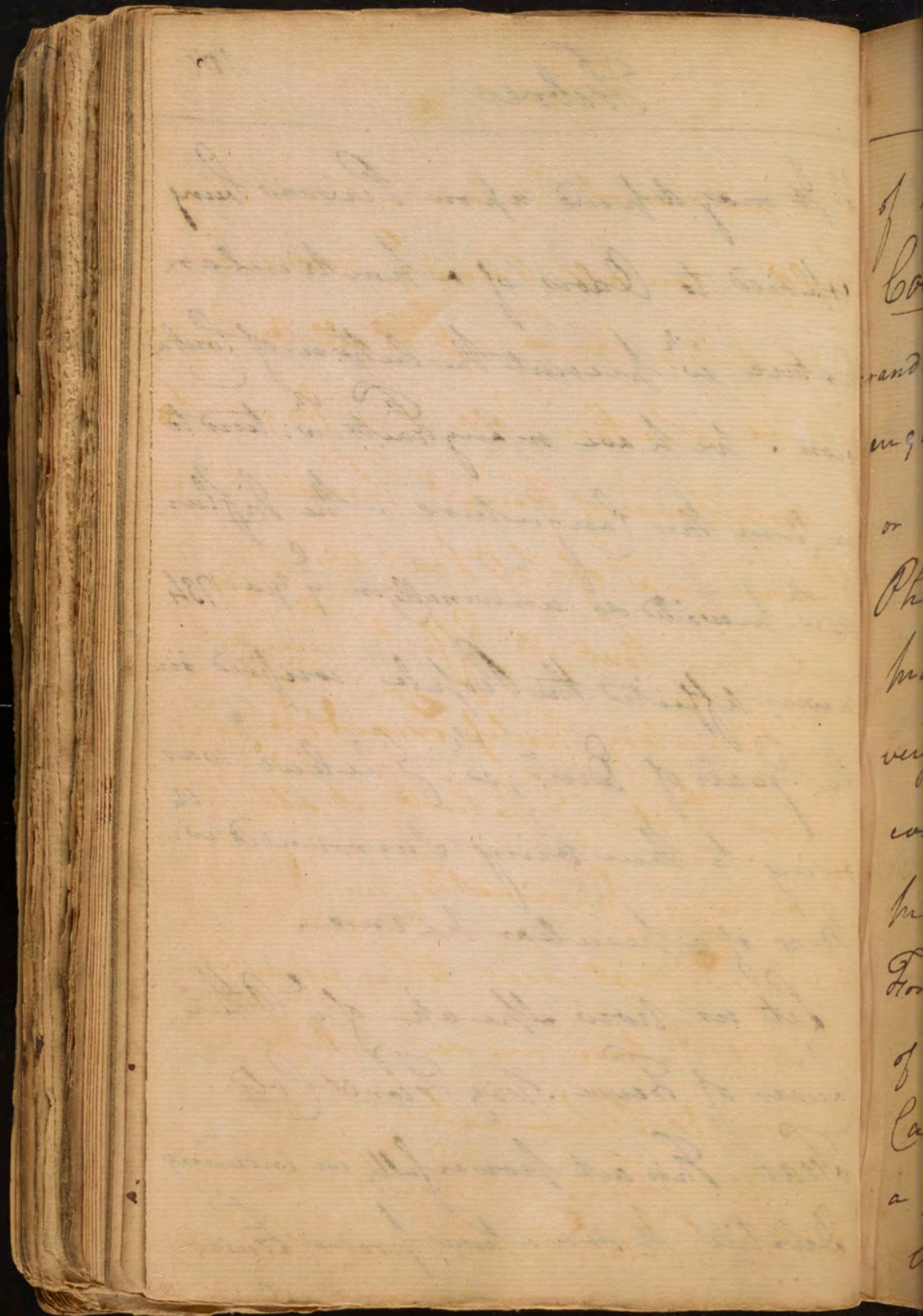


It may depend upon ² power of
habit. all Impressions have their Force
weakened by Repetition. If men have
a certain vigour of System & escape the
exciting Cause they become so habit-
uated to the Contagion that it requires
a powerful Quantity of it to affect
them. It is from this, that Physicians
& Nurses are seldom affected wth conta-
gious Diseases. May not the Reason why
People are seized wth Contagions but once
in their Lives be owing to ² Force of Habit
or to their nervous System being once
affected wth by Contagion? But to this we
must add y^t Solids are capable of forming but
one.



1st It may depend upon Persons being exposed to Odors of a particular nature w^{ch} prevent the action of Contagion. we have many facts w^{ch} tend to confirm this Conjecture. the Influenza w^{ch} prevailed so universally in ^e year 1734 never affected the People confined in the Goals of Din^w, w^{ch} I believe was owing to their being surrounded wth Odors of a peculiar nature.

Let us now speak of y^e Other Causes of Fever. viz Fear & Cold Fear. This act powerfully in inducing Debility. It sometimes produces Fever



of a permanent nature.

Cold. you all know ^{the} $\frac{c}{y}$ modus Operandi of this Cause. I shall only enquire whether Cold is a frequent or only cause of Fever? From the Phenomena of Cold Bathing it appears probable. But its Effects here are very transitory unless ~~Lead~~ ^{Lead} & Surprise concur w: it. I believe it seldom produces a permanent Fever alone.

For ^{as} in most Cases where we are sure of its Operation we see nothing but Catarrh & Rheumatism & never a proper Fever. Even in those Cases where $\frac{c}{y}$ Cold is suspected of acting

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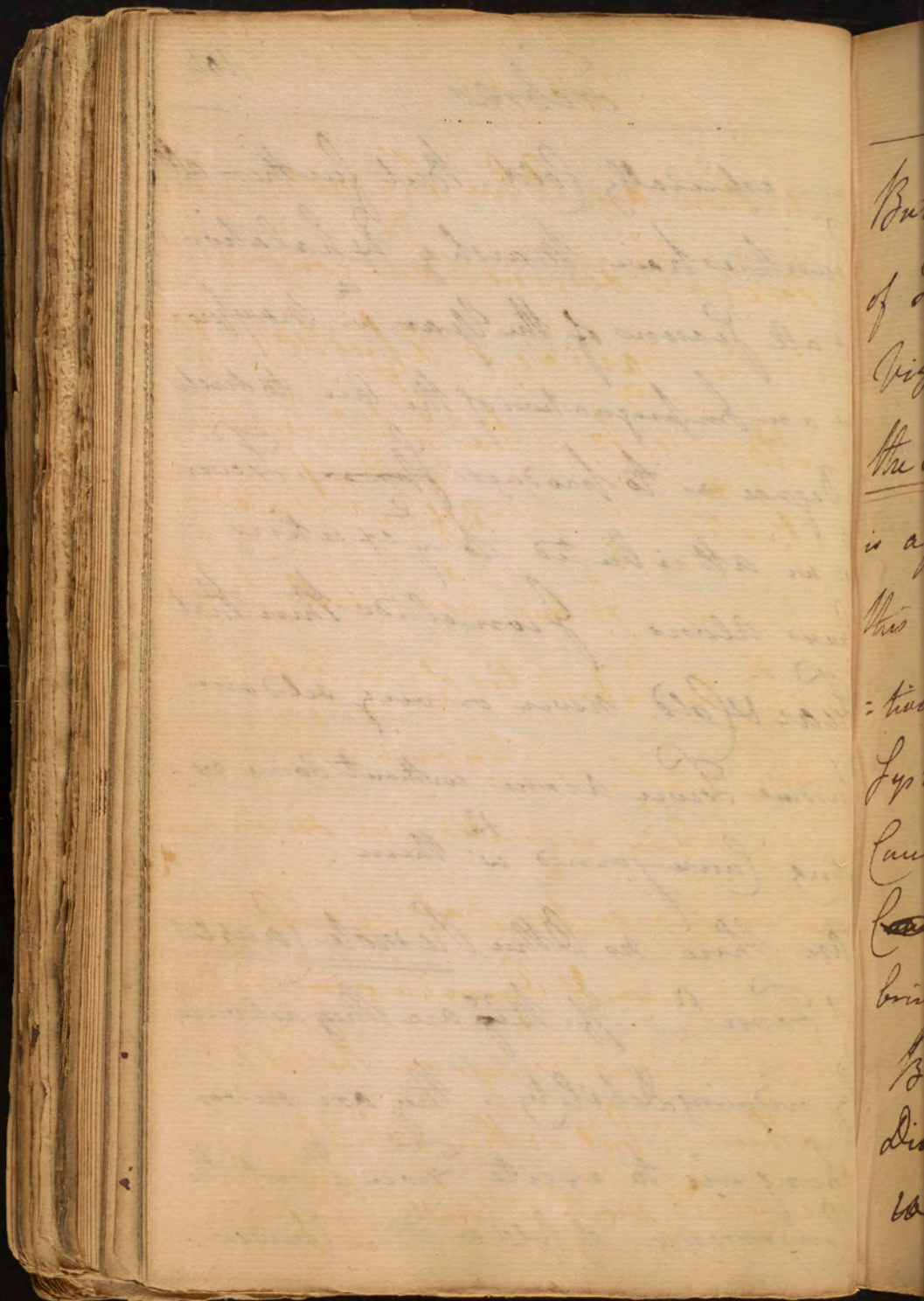
alone. Other Causes may have cooperated
such as Miasmatic Contagion for we
often see Contagions adhere very long
to certain Bodies, & yet excite no Effects
upon the persons who has carried
them about wth them, unless they have
been transferred to Other Persons or
to Other Countries. Contagions are
very tenacious in ^{the} same manner as
Odors w^{ch} we know continue on Bodies
for a 100 Years. now as this is ^{the} Case
the Effluvia of Animal Bodies may be
accumulated in the Cloaths in such
a Degree as to act at Once when the
exciting Causes we spoke off occur

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more especially cold. But further all
Countries have Marshy Exhalations
at all seasons of the Year w^{ch} may pro-
duce an Impregnation of the Air to such
a Degree as to produce ~~Fevers~~ Fevers
w^{ch} we attributed to ^{the} existing
Causes alone. I conclude then that
Fear & Cold never or very seldom
produce Fever alone without some ex-
isting Cause joined wth them.

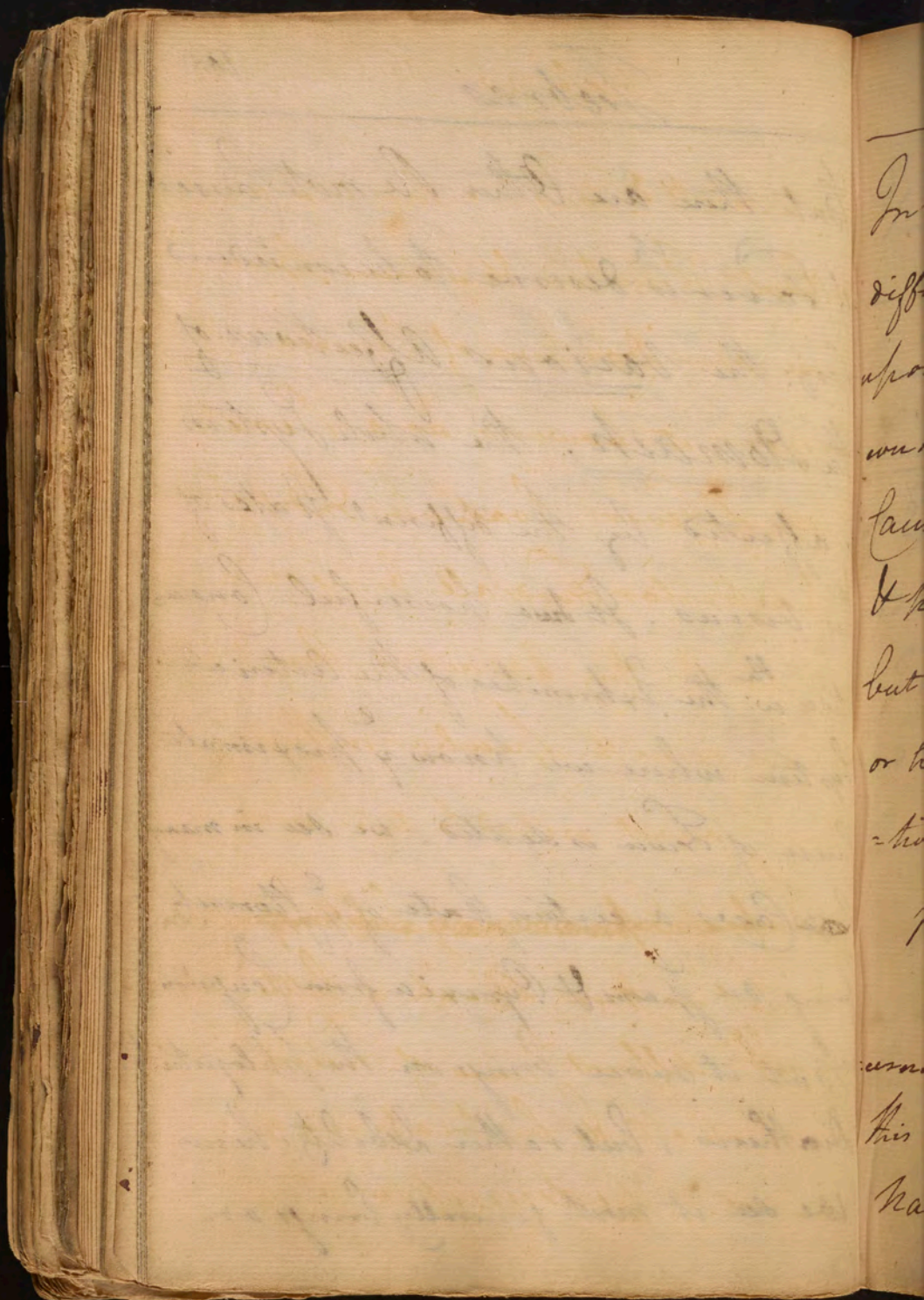
Are there no Other Remote Causes
of Fever? - If ^{they} are they act only
by inducing Debility. They are never
strong ^{enough} to excite Fever wthout the
Concurrence of Cold or Other Causes.



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But there are Other Remote Causes
of Fever w: deserve to be considered
viz: the various Affections of
the Stomach. the whole System
is affected by the different States of
this viscus. It has a powerful Connec-
tion w: the Extremities of the Arterial
System where we know ^e proximate
Cause of Fever is seated. we see in many
~~case~~ Cases a certain State of ^e Stomach
bring on Spasms & Pyrexia from Congestion.

But it never brings on the phlogistic
Diathesis, but rather Debility. hence
we see it most generally brings on



Intermitt & Fever. This is a very difficult Question & is some Blemish upon our Doctrine of Pyrexia. I consider it however as a Remote Cause of Fever. Crapulas Indigestions & particular Foods all bring on Fever but whether they all act in One way or have something peculiar in their Operation I cannot pretend to determine. —

~~Before I proceed any farther I shall~~

Let us now speak a little concerning the different Species of Fevers, & this we shall do by treating of the Nature of Epidemics. —

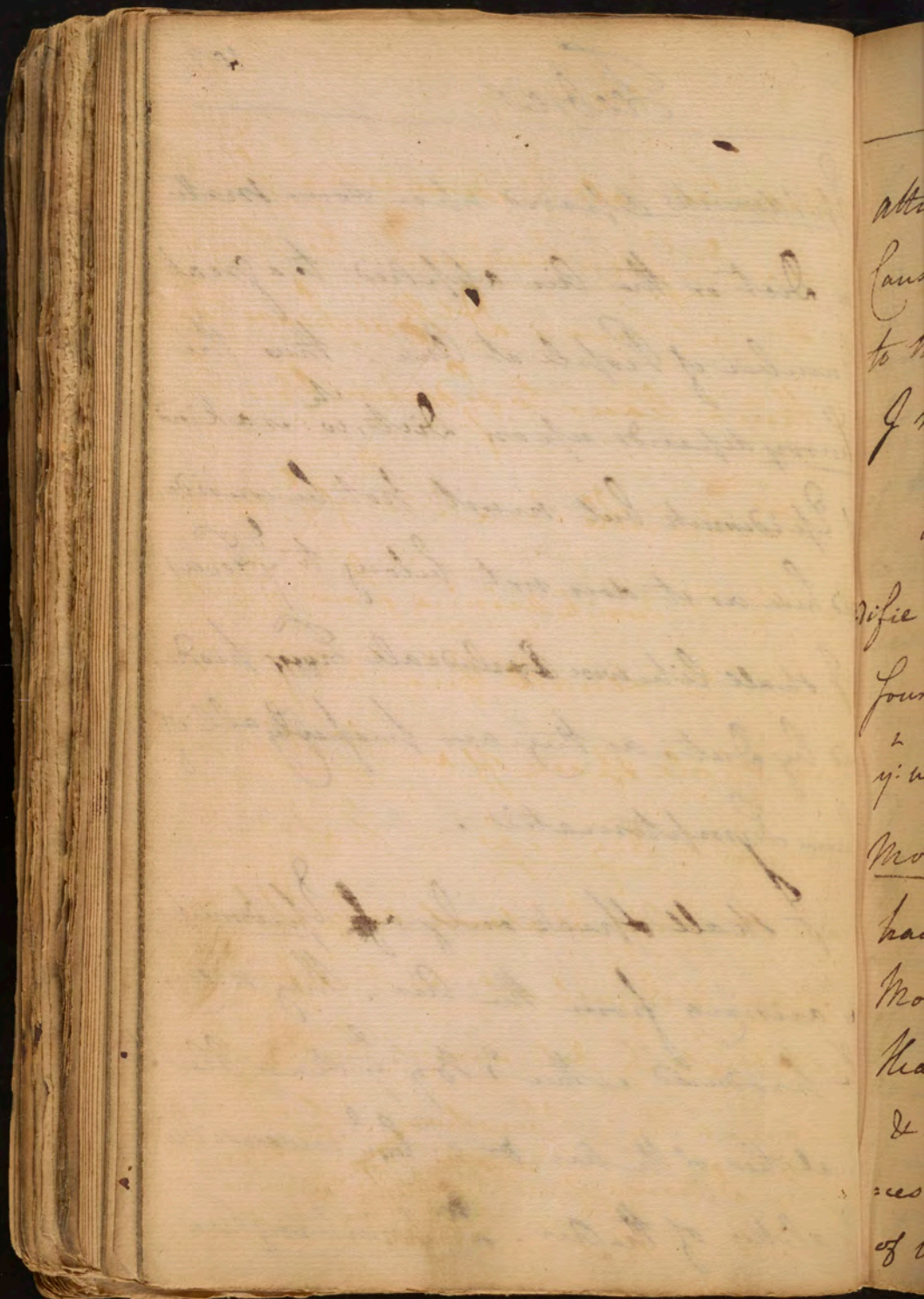
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Epidemics depend upon some matter
in Diet or the Air applied to a great
number of People at Once. Thus the
Scorvy depends upon Diet, ^{is} is a kind
of Epidemic but must not be conside-
red here as it does not belong to ^{the} Fevers.

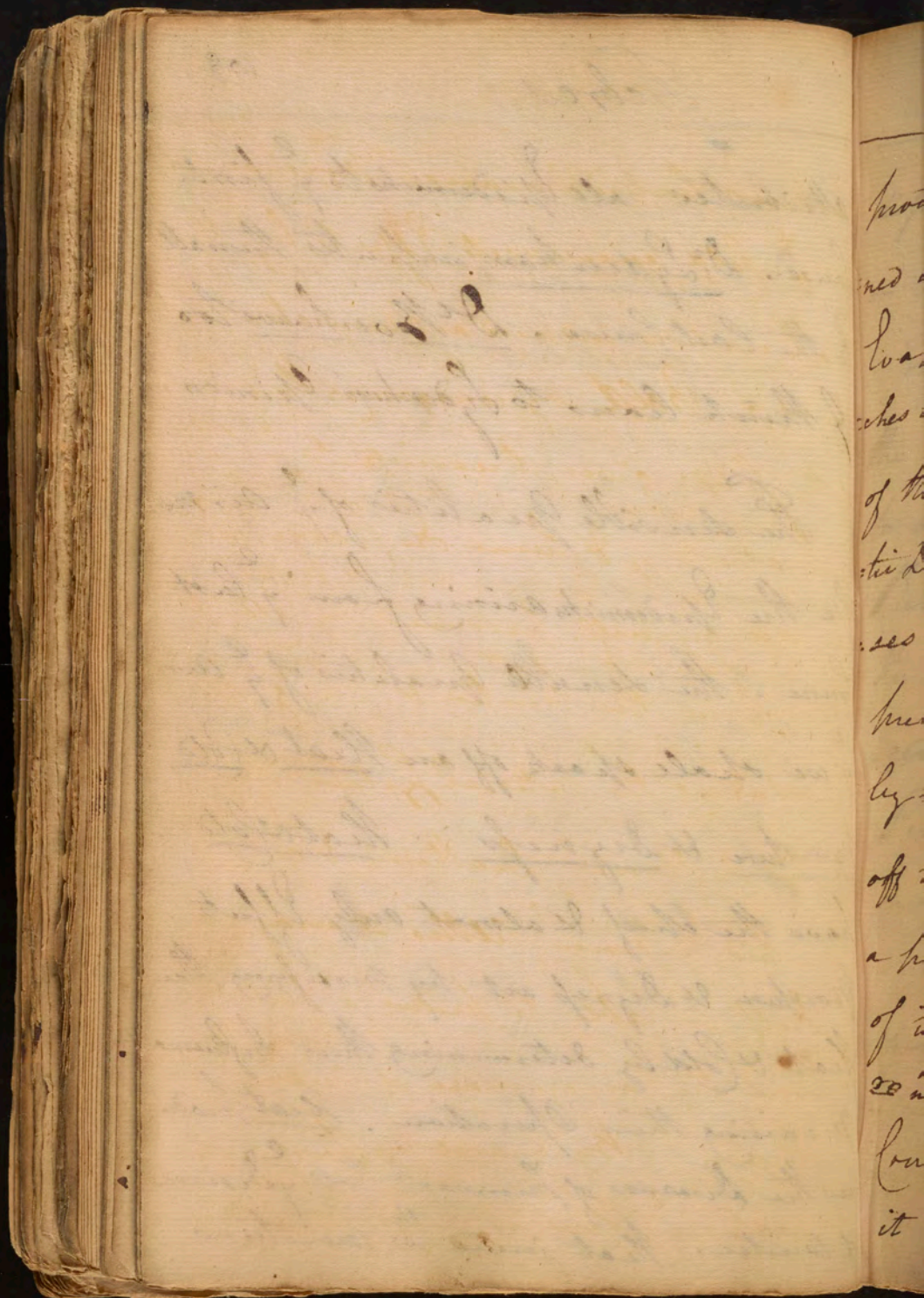
I shall likewise Exclude all Excess produ-
ced by Diet, as they are properly all of
them Symptomatic.

I shall speak only of Epidemics
as arising from the Air. They may
be produced either 1^o by ^{the} sensible
Qualities of the Air, or 2^o by ^{the} insensible
Qualities of the Air. D. Winttingham



attributes all Epidemics to γ^c first
Cause. Dr. Sydenham imputes them all
to the last Cause. Dr. Boerhaave too
I think leans to Sydenham's Opinion.

The sensible Qualities of γ^c Air mo-
dify the Epidemics arising from γ^c last
Cause. the sensible Qualities of γ^c Air
² if we shall speak off are Heat & Cold
Moisture & Dryness. Heat & Cold
have the chief & almost only Effects.
Moisture & Dryness act by modifying the
Heat & Cold by determining their Influence
& varying their Operation. Heat produ-
ces the Diseases of Summer & Cold γ^c Diseases
of winter. Heat joined wth moisture



produces putrid Diseases. Moisture join-
ed w: ^{the} Cold increases its Effects by the
Evaporation induced as Chemistry tea-
ches us. Cold by increasing the Tension
of the Solids gives Occasion to $\frac{2}{7}$ Phlogis-
tic Diathesis, & hence Inflamⁿ: Disor-
ders are generally produced by Cold, &
prevail in the winter & Spring. Heat
by relaxing the Arterial System takes
off the Inflamⁿ: Diathesis, & increases
a putrid Tendency altho' it may not
of itself be able to produce a putrid Fever
wthout the Concurrence of Miasmata or
Contagion. By increasing Perspiration
it makes $\frac{2}{7}$ Humors acid w: may

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dispose them to putrid Fermentations,
or to be affected by their own Miasmata.

From Warmth applied long $\frac{2}{3}$ Body
the Bile is apt to become acid, &
to overflow in the Intestines, hence the
Reason why Choleras are so frequent in
the Dog-Days. It is $\frac{2}{3}$ Bile itself chan-
ged or is its Acrimony occasioned by
Perspiration being affused to it? I
shall not here determine this Question.

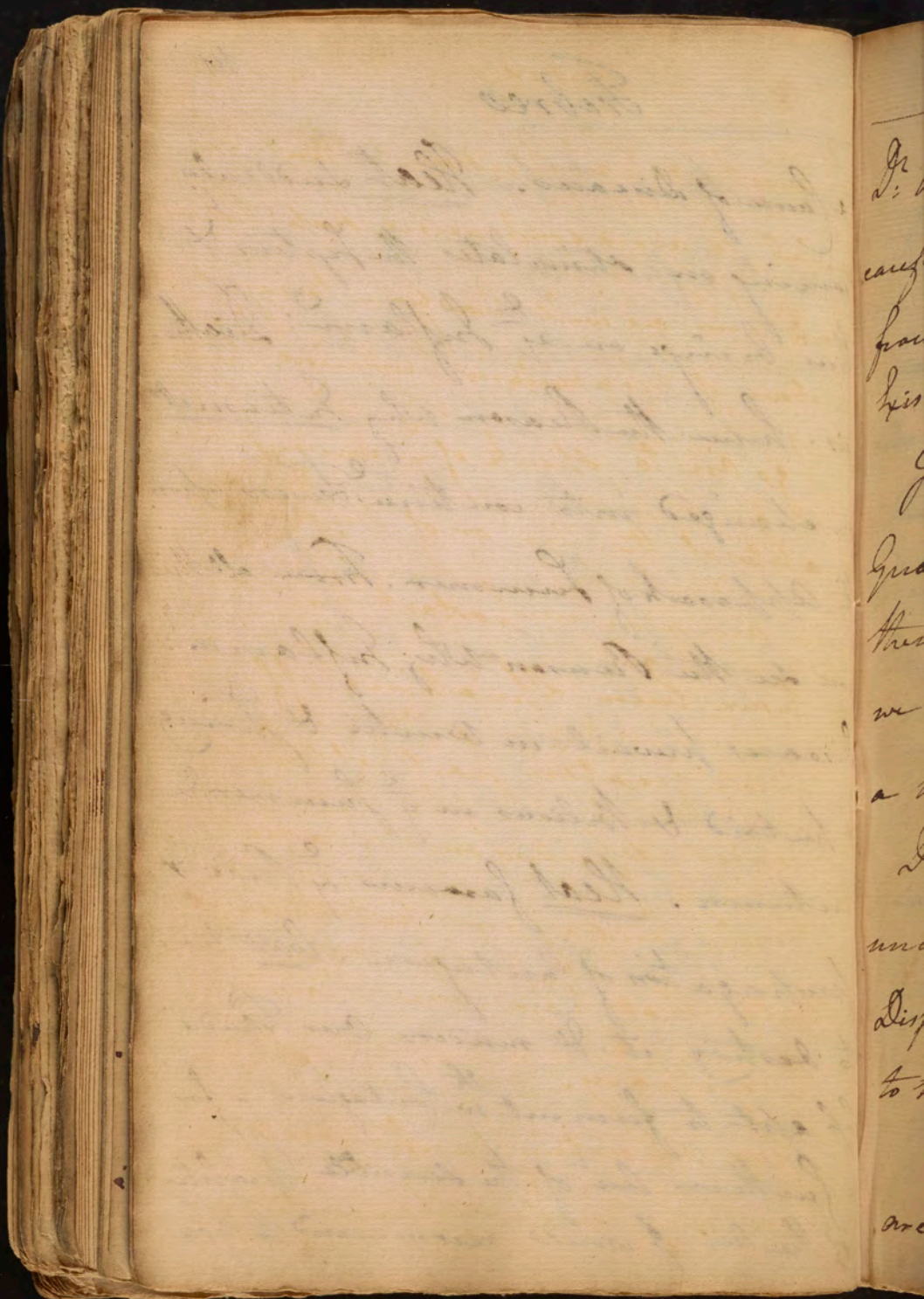
- This Afflux of Bile into $\frac{2}{3}$ Intestines
should not always to be considered as
 $\frac{2}{3}$ Cause of autumnal Diseases; from what
we said before of Intermitting Fevers
it may be considered rather as an Effect than

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a Cause of Diseases. Heat suddenly
coming on stimulates the System &
thus brings on $\frac{1}{2}$ Inflammⁿ: Diathe-
sis. hence the Reason why Intermitt.
are changed into continu^e: Fevers upon
the Approach of Summer. From all this
you see the Reason why Inflammⁿ:
Diseases prevail in winter & Spring
& putrid & Bilious in $\frac{1}{2}$ Summer &
Autumn. Heat favours $\frac{1}{2}$ Rise &
propagation of Contagion. Cold tends
to destroy it, & renders our Solids
less apt to ferment wth Contagion. for
a further Acc^t: of the sensible Qualities
of the Air I would recommend to you

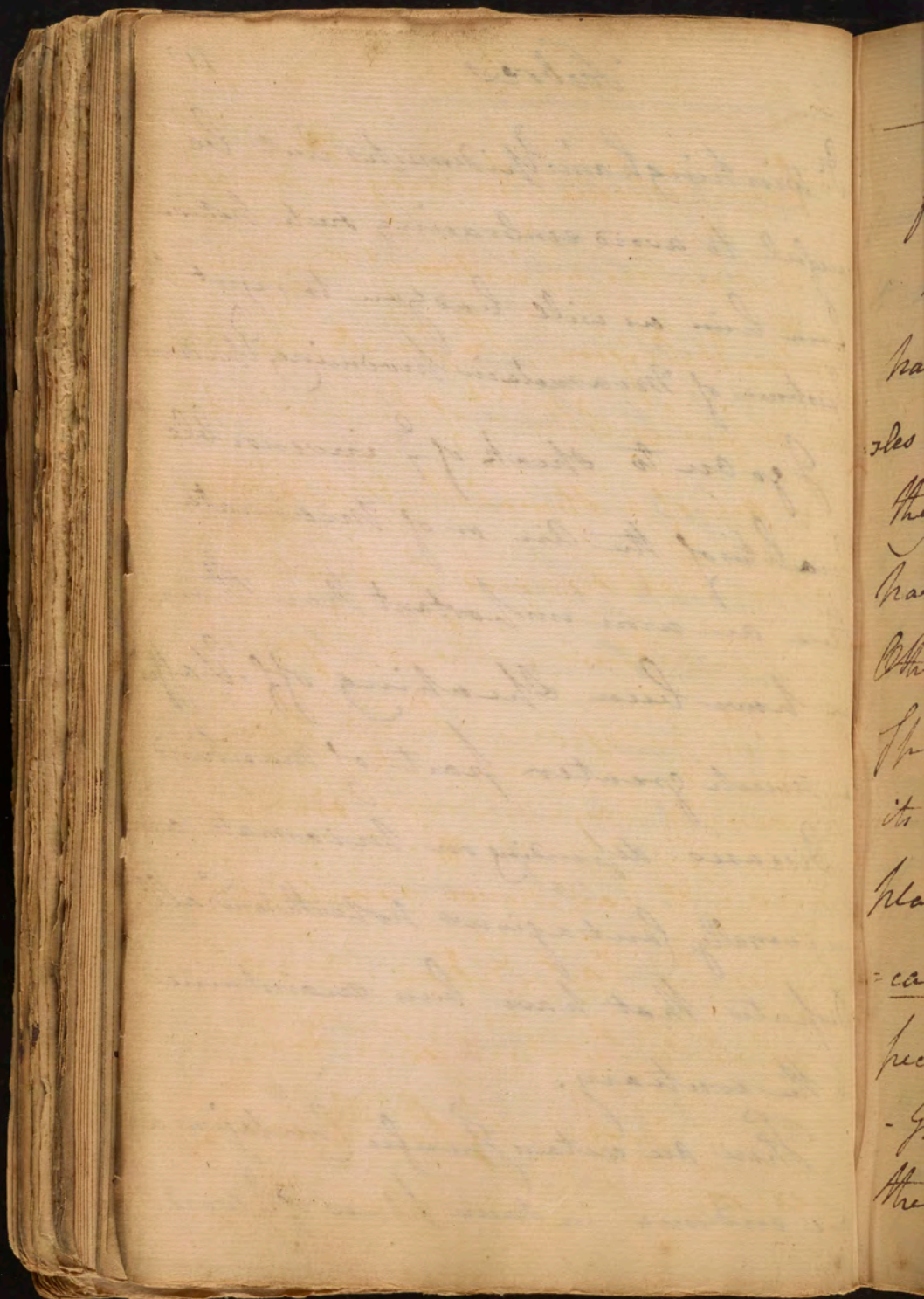


Dr. Witheringham's Epidemics but be
careful to avoid embracing such notions
from him as will lead you to reject the
existence of Miasmata in producing Epidemics.

I go on to speak of $\frac{2}{7}$ insensible
Qualities of the Air or of Miasmata.
these are more important than those
we have been speaking of. I affect
a much greater part of Mankind.

Diseases depending on Miasmata are
universally contagious notwithstanding all
Disputes that have been maintained
to the contrary.

There are certain Specific Contagions ^{which}
are endemic in some places of $\frac{2}{7}$ world.



from whence they may be propagated;

But we are uncertain of their true
nature & Origin. The small pox mea-
sles & a few others ^{are} of this nature.

They are of a stimulating & sedative
nature, & are disposed to unite th w:
other Contagions. The Plague is a
specific Contagion. This I prove from
its being always endemic in some
places. It has never reached Ameri-
ca nor the East Indies. It is always
peculiar to the Turkish Dominions.
It is not produced by the Customs of
the East Turks, as some have sup.

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known for in many parts of Turkey
it never has been known. There
are many Diseases w^{ch} resemble the Plague
in having Buboes - Anthrax & Carbun-
cles from w^{ch} we may suppose that
the Plague is only a diversified species of
the putrid Diseases.

There are few Other Specific Contag-
ions except these. The Yellow Fever
however is another species.
It is certainly a contagious Disease & its
Symptoms are ~~to~~ widely different from
the Bilious Fever. All the Other varieties
of Epidemics are to be reduced to two.

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Species only. such as are propagated
by Contagion evident to our Investigation
~~to taste~~ or from Fomes, or 2nd: Such as
depend on $\frac{c}{y}$ sensible Qualities of the
Air.

~~add~~ we shall first treat of those
Epidemics w: arise from human &
marshy Effluvia. I would restrict
the Effluvia w: produce Diseases among
men to $\frac{c}{y}$ human species only as
Brutes are never affected at $\frac{c}{y}$ same
time w: it, nor are mankind affec-
ted w: the Epidemic Diseases of
Other Animals. we have Instances at
Mariscles of Dogs licking the sores

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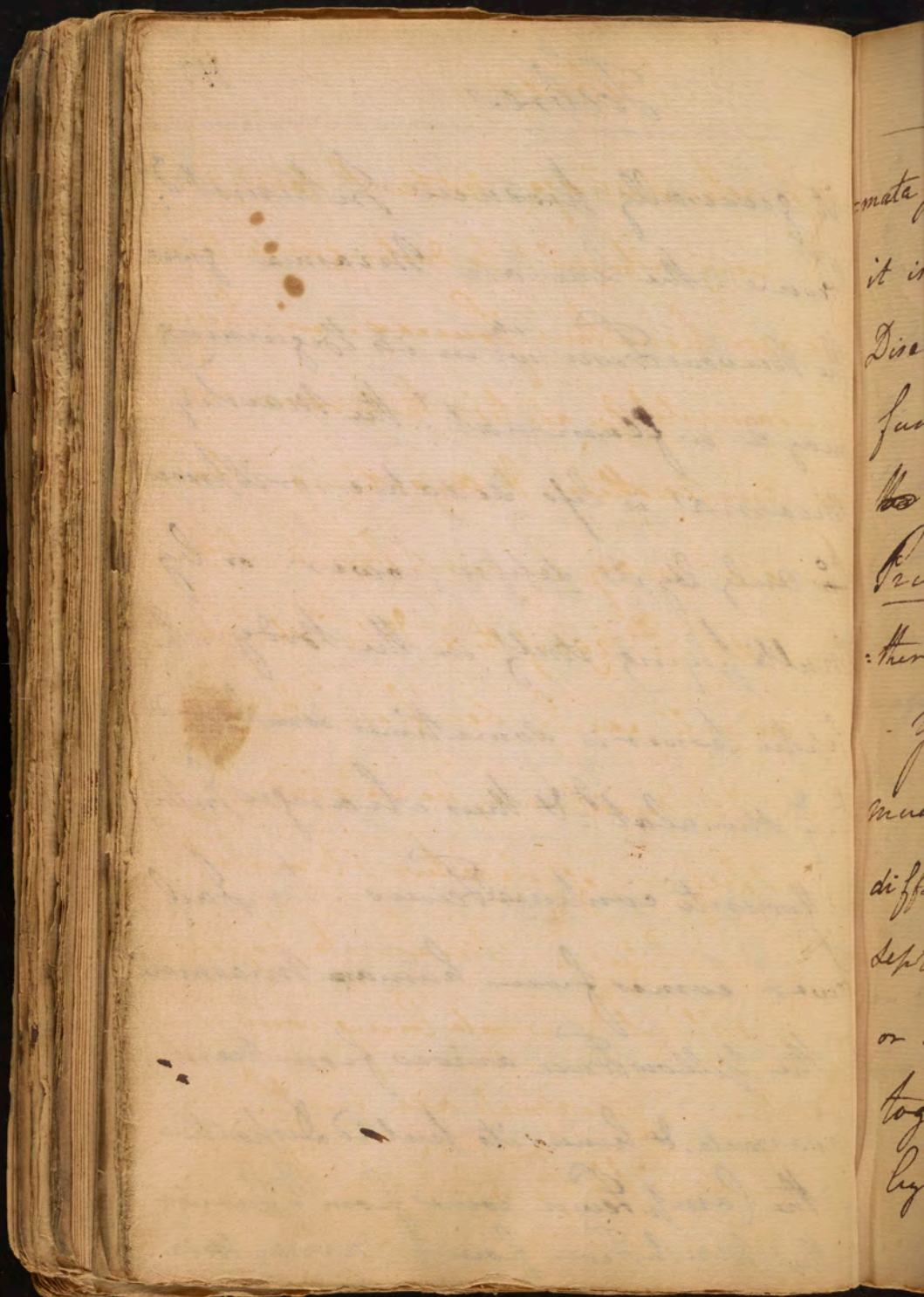
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it generally produces Intermit^t Fevers. the human Miasma gives the nervous Fever w^h in its Beginning may be inflamm^t. the Marshy Miasma is less sedative, or it proves ~~so~~ only by its septic power or by multiplying itself in the body. the septic power is sometimes combined w^h ~~the~~ ^{the} stimulat^t. & thus changes Intermitting into continual Fevers. the Sail Fever comes from human Miasmata.

- the Yellow Fever arises from Marshy Miasmata, & hence its putrid Disposition.
- the Camp Fever comes from ^{the} human
- the Marsh Fever from ^{the} Marshy Mias.



mata I acknowledge notwithstanding ^{q²} y:
it is very difficult to distinguish these
Diseases from their Sources. in their
fundamental Qualities they resemble
~~be~~ One another, & according to Dr.
Pringle may be combined toge:
ther. See p. 296 of the 4th Edition of his Works.

You will easily see from this how
much Epidemics may be varied by y:
different Degrees of Sedative & Stimulat:^o
Septic Qualities w^{ch}. Miasmata possess,
or by different Miasmata being combined
together. Miasmata are further varied
by the sensible Qualities of the Air, or

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by the peculiar Constitutions of
Men. some favouring the Sedative

Others the stimulating & Others Against
the septic power of miasmata. These

Notions may appear Theoretical,

but they are founded on Facts, & will

lead us to arrange Diseases in a
regular Nosology as we shall see

more fully in the Cure of these Diseases.

I would not however push these prin-

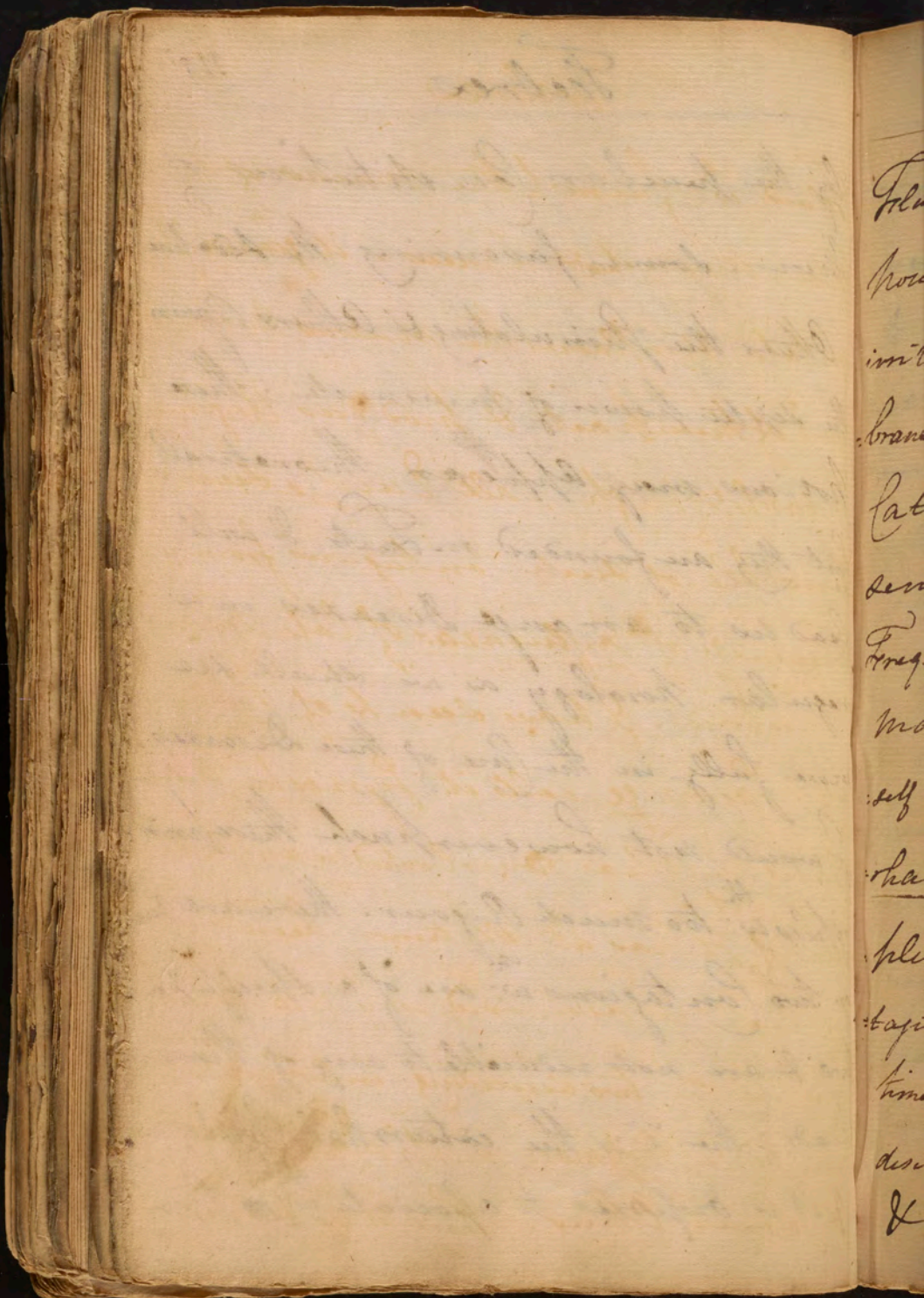
ciples wth too much Rigour. There are One

or two Contagious w^h are of a Specific Na-

ture & are not reducible to any of these

Heads. the 1st is the catarrhal Contagion.

- it is disposed to associate wth those



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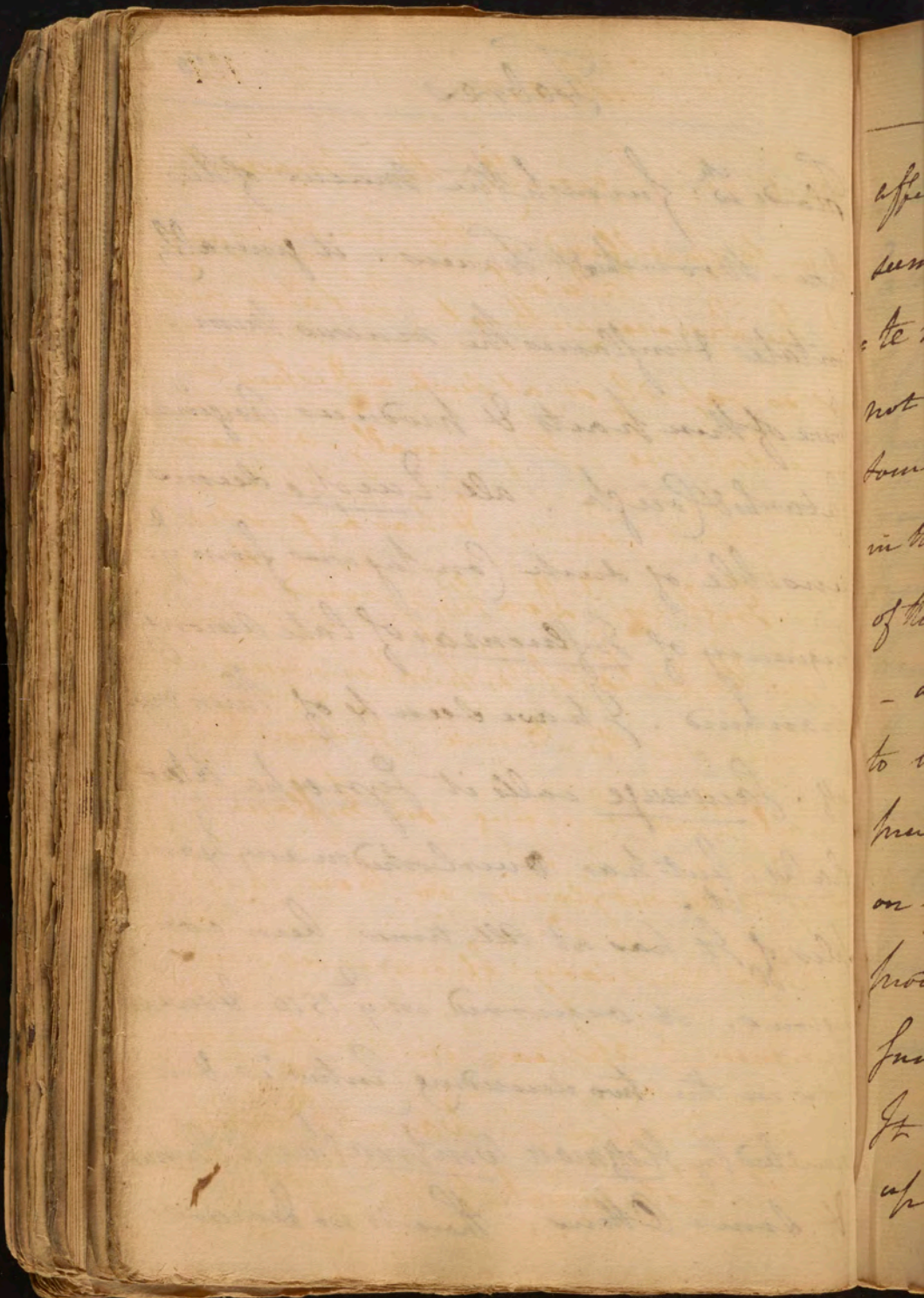
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Fluides^{ch} furnish the mucus of the
non-bronchial Lances. it generally
irritates & inflames the mucous Mem-
brane of these parts & produces Angina
Catarrh & Cough. all Europe seems
sensible of such Contagious from y.
Frequency of Influenza of late among
mankind. I have seen 4 of them my-
self. Sauvage calls it Synocha (Catarr-
halis, but has overlooked many Exam-
ples of it. It has at all times been con-
tagious. it occurred in y^e 1510. & several
times in the two succeeding Centuries, & is
described by Hoffman Wintregham & Hurken
& some Others. there is no Disease



affects so universally. the miasmata
 seem to be diffused in the air, & propagate
 the Disease ^{almost} without Contact, but
 not so rapidly or at such a distance as
 some suppose. It generally appears
 in the winter season, & has a good deal
 of the Inflamⁿ. Diathesis joined wth it.
 - an Abolition of Perspiration is necessary
 to bring on the Disease. It sometimes
 prevails wthout bringing on Inflamⁿ.
 on y^e mucous glands. in these Cases it
 produces miliary Effluences. in y^e
 summer it appears in this manner
 It depend upon the warmth keeping
 up the Determination to the skin. may

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not all miliary eruptions be the
Catarrh diffinently modified by $\frac{2}{y}$ heat
of summer? w: seems to favour of
this supposition is $\frac{2}{y}$: most miliary
Fevres are attended w: ^{the} Catarrhal
Symptoms. In all Cases where a whole
Family is seized at Once w: ^{the} a cold wind
^{in the air,}
the concurrence of Cold & Moisture ^{the} ~~in the air,~~
suspect the Operation of Contagion.
- There appears to be a catarrhal Con-
tagion always lurking about us. It is
now a well established Fact that the
Inhabitants of St. Kilda are all seized
w: a Catarrh in a few days After a
Stranger lands among them.

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There is another specific Contagion
 of this Genus to be spoken of viz: the
Dysenteric Contagion. I believe it
 always arises from marshy Effluvia
 but may require a certain Concur-
 rence of a particular state of Bile
 or of the Viscus of the Intestines
 to produce it. we have ² most
 undoubted proofs of its depending upon
 marshy Miasmata from Dr. Pringle &
 Dr. Cleghorn. It generally coincides
th w: the tertian Fever, or occurs at ^{the} same
 season th w: it. of this we have a striking
 Example in Cleghorn's Treatise of the
 Diseases of Minorca. from this

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I am induced to believe that both
Diseases depend upon one common ^{specific}
Origin or upon the same Miasmata.
- we find they resembled & were changed
into each other, & were in a like
manner both cured by $\frac{c}{y}$ Bark.
Dr Pringle has some Observations
in S. 3. Ch. 6 part 3. w: tend to confirm
his Opinion, Altho' he seems unwill-
ing to draw the same Conclusion from
them. a late Professor at Göttingen
in a Treatise de "Morbo Mucoso" w: is
nothing but a Dysentery has likewise
fully proved $\frac{c}{y}$ the Ferition & Dysentery
depend upon $\frac{c}{y}$ same Marsh Miasmata.

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In this view therefore the Dysentery
is not to be considered as a Specific
Contagion, nor does it subsist at all
times like Other Contagions, but is
annually produced. This Contagion
when it is turned into a Dysenteric
nature however produces Dysenteries
only from having undergone some change
in the body, & not Tertians. This finishes
all I had to say upon Epidemic Con-
tagion. I shall briefly recapitulate
all y^e has been said on this subject.

The Diseases produced by y^e sensible
Qualities of the Air are very few. Pleurisies
Pneumonies are almost y^e only -

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Diseases produced by γ sensible Qualities of the Air.

Most of Epidemics depend upon Contagious ^{ch} w: are Exanthematic & Catarrhal. - There may be Others ^{ch} w: have escaped my Reading & Observation.

Many Epidemics depend upon Contagious ^{ch} w: are Occasional, ^{ch} w: may be produced at all times & in all places. They arise from γ human Body & Marshy Ground.

Epidemics may arise from either of these, or from both combined together, or from either of them or both uniting ^{the} w: specific Contagions.

Epidemics will be varied by the

Robert

I have been thinking of you very much lately
and wondering how you are getting on
I hope you are well and happy
I have been very busy lately
but I have not forgotten you
I have been thinking of you very much lately
and wondering how you are getting on
I hope you are well and happy
I have been very busy lately
but I have not forgotten you
I have been thinking of you very much lately
and wondering how you are getting on
I hope you are well and happy
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but I have not forgotten you

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sensible Qualities of the Air & by the different States of ^{the} Constitutions of Men. all the Modifications of ^{the} Miasmata & Contagion may be reduced to Lixative. stimulating & Septic powers, & all Epidemics will be varied by the greater or lesser Predominance of One of these.

There is a curious Problem started of late Years concerning Epidemics. i.e. that they were much more frequent in ~~some~~ former Years than ^{at} present. Boerhaave & Morton abound wth Definitions of Epidemics. Pringle wonders where they got them from. the Reasons of this

growing ⁱⁿ to fewer human Miasmata
being generated ~~at~~ present than
formerly from People's living
crowded together. 2nd to our Cities being
kept much cleaner than formerly espe-
cially in England. 3rd People are less
confined to their Houses than formerly
- the Paving of Streets & use of Carri-
ages have invited People more abroad
of late years. 4th the great Change in
our Diet makes our Bodies less apt to
generate or to receive Miasmata. ve-
getables are now purchased so cheaply
that poor as well as rich in some Coun-
tries live on them at present. 5th the

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use of Sugar has likewise tended to
diminish the Effects of human Mi-
seria as well as to prevent their Gene-
ration 6th Greater Attention is paid
to our Gaols & Hospitals than former-
ly from whence we know so many
Contagions take their Rise 7th the
Improvements ~~of~~ in Agriculture
have tended to diminish the Quantity
of Marshy Ground. a very fruitful source
of Miasmata! 8th We are less exposed
to occasional Causes ~~as~~ than our Fore-
fathers from $\frac{1}{2}$ greater Compactness of
our Houses. & greater plenty of Fuel among
us. I tho't it of Importance to point

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but these things, that we may in w.
manner to proceed in shewing y.
Rage of Epidemic Diseases.

Let us now consider the periodical
motions of Fevers. This a subject of
importance than it was formerly
from our depending life upon the
Operations of Nature. But still it
deserves to be attended to.

we shall 1.^o enquire into y^e Facts them-
selves & 2.^o into y^e Reason of them.

all Physicians agree in y^e periodical
Movements of Fevers, more especially
the Ancients from Hippocrates down-
wards. Oslepiades was y^e first who

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of und critical Days, or at least $\frac{2}{3}$
general Rules of Hippocrates w. Re.
ard to quartan & septarian Days. I
believe he maintained their periodical
motions notwithstanding. What Period do
Tewers observe more steadily? The Ancients
agree in their Periods, altho $\frac{2}{3}$ Moderns
disagree about them ⁱⁿ w. is owing to their
living in more ~~south~~ northern Countries.
- Most of our eminent Practitioners
however have believed in them, & most
of them agree in certain Days. Histories
of Diseases abound w. th proofs of this. all
negative assertions to $\frac{2}{3}$ contrary are of
but little weight. we shall enquire

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Therefore into these Days. unhappily!

we have been too much led by Hippoc.

rates in pointing them Out. who is

indeed often contradictory in his Au^r:

of them, w^{ch} may be owing to many of

his works being spurious, & many of

those w^{ch} are his own having suffered by

being transcribed. Hippocrates himself

too is to be suspected of being biased to

Pythagoras' Harmony of numbers w^{ch}:

may have led him to set down some

things from Theory only. He was besides

too apt to form general principles.

in the 36th Aph. of B. IV. he marks out

the 1st 3rd 5th 7th 9th 11th 14th 17th 20th as critical

days. There is but One Difficulty in

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admitting these Days. i.e. of Hippocrates says that critical Days occur Only on the odd Days. now here we see several even Days. He says too that the Critics of Fevers happen on Quartan or Septarian Days. But this arose from his Theoretical notions. It is therefore left to be attended to. all Physicians agree in the Days Hippocrates has pointed out. St. Auen & Dr. Martin who made many Observations upon critical Days both agree in general upon these Days.

2.nd Why are the Movements of Fevers in this manner? This is a most difficult Question. but we shall Attempt it. They appear to be founded upon some Law of ^{the} Animal

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Reconomy. the human Body is subject to diurnal Revolutions, & once every 24 hours becomes in every Respect Alibe.

The ~~Less~~ Excretions by Food & most of our Appetites are in some Measure diurnal. the Fundamental powers of the Body are not subject to any great variety, but are nearly $\frac{2}{3}$ same in all Systems. the least Deviation in any of the Functions is followed by a contrary State of the Body. thus Laxative is succeeded by Pess, & an increased Quantity of Food, by an increased Excretion of Urine & stool. from this we see ^e System has a power of preserving its own Balance. But Further, the human

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body is greatly subject to $\frac{2}{y}$ power of
Habit ^{ca} w: determines the Degree Velocity &
Order of all our Actions. from this,
any one Action may become periodi-
cal merely from the power of Habit.

The Oeconomy is most uniform in
its Beginning, hence young subjects
are most disposed to $\frac{2}{y}$ power of Habit.

- The human body is besides this expo-
sed to $\frac{2}{y}$ Influence of several Bodies around
us ^{ca} w: are periodical, especially the Sun
& Moon. the Sun more especially Operates
upon our bodies. we are sure of its
Influence tho' we cannot say how its Acts.

- within the Tropics the Operation of
the Sun is more evidently Observed upon

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the Act of his shining more directly.
 - the vicissitudes of Heat & Cold. Light &
 Darkness. as well as $\frac{2}{4}$ States of $\frac{2}{4}$ Air
 are ^{more} constant in those hot Climates
 & hence the Sun's Action is less inter-
 rupted, & periodical Revolutions in $\frac{2}{4}$ Sys-
 tem are more easily observed in sou-
 thern than in Northern Countries.

The nervous System is the chief Seat of
 Habit, & I believe the Operations of
 Habit are confined to $\frac{2}{4}$ Sensorium Alter-
 - the Secondary Effects of Habit appear
 in the Other Functions, more especially
 in the Sanguiferous System. the Pulse
 is slower in $\frac{2}{4}$ Morning - Quicker

112

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at noon - is slow in $\frac{1}{2}$ Afternoon
& quicker in the evening. for a
full Ac^t of these Facts see Dr Robinson's
Animal Economy. I think we may
confide in them, Altho' his Experiments
were not made wth all $\frac{1}{2}$ Accuracy we
could wish. the Vacillations of the
Fevers are sufficient Demonstrations
of the Truth of them. I have Observed
a Quicksness of Pulse from 10 to 20 Beats
in Heat w^{ch} could not depend upon
Diet as the Quicksness of Pulse in
Dr Robinson's Experiments might have
done.

All Intermittents come on in the
Forenoon, & generally finish their

1848

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Paroxysm in 12 hours. these regular
Exacerbations appear to be founded
on the diurnal Revolutions of γ ² system.

- But the System is disposed to regular
Periods once in the 48 hours likewise
from Causes ^{ch} w. I cannot explain.

- I infer it from γ ² ~~unifor~~ ^{regularity} ~~mity~~ of
the Tertian Fevers, ^{ch} w we often see
prevented even in continual Fevers.

- Quartans depend upon a less irri-
tation of the System as contin: Fevers

depend upon a greater or upon the
Inflamator: Diathesis. the notion of

γ ² Dies Impares of Hippocrates has some
Foundation from γ ² great Disposition

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th w: Fevers have to y ² Tertian Type.

Quartans never occur in y ² Spring
nor Summer from y ² Presence of Stimul^{ts}
li from Cold & Heat. they occur only
in the Autumn when the system is
subject to less Irritation.

Nature we see then affords periodical
motions wth is evident from y ² Phenome^{ns}
na of Intermitt[?] Fevers. we presume
these motions ^{are present} in continual Fevers th ^{1st} ^{2nd} ^{3rd}

because contin[?] Fevers are naturally
intermittent till some stimulating
power occur wth them wth render them
continual. 2nd because their Termina^{ts}
tions happen upon regular Days wth.

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connects wth the tertian or Quartan type.

3.^d They have their exacerbations & Remissions upon the critical Days of Hippocrates they are tertians in the Beginning, but as y^e System becomes weak they assume y^e Form of Quartans w^{ch} is generally About y^e 11th Day. — 4.th They have exacerbations & Remissions twice a day w^{ch} I believe arises from the Influence of y^e Sun.

The Attention to Indications of Cure in fevers tends much to illustrate the Method of Cure.

To come at this I began the curious Question of nature's curing fevers — I believed the Doctrine of Correction & Expulsion of morbid Matter was exploded as not to require a Refutation — I took notice of the Opinion substituted by those who suppose fevers owing to Inflammation the Cure depending on removing this.

The Spasm does very generally attend Fevers & often occasions the Continuance of them; yet this is not always the Cause. In all Fevers there is a Condition previous to the Spasm, which is to be considered as the Cause of the Disease & therefore the removal of this must give the Cure. — This Condition I have said consists in a certain Debility of the Sensorium or an Imperfection or Resistance to its Influence, by which the Power is not distributed equally to the various parts of the System. Thus in the sanguiferous System in greater Proportion than in the animal Organs being greater Proportion distributed to the Head & larger Arteries than to the Extremities. Nature then cures Fevers by removing this Imperfection or resistance to the action of the Sensorium. This is favoured by the whole Phenomena of Fevers & will plainer appear hereafter in the Means employed to remove Fevers.

This is a Doctrine that will be difficultly received: for the Debility of the System seems constantly to be going on in Fevers. Nay, the Debility is often greatest, when the Disease is gone. — The Debility I suppose the Foundation of Fevers, tho' in some measure universal, is yet unequal; more of it in the extremities than the origin of Nerves, more in animal than vital Organs & more in the Extremities of the Arterious System than in large Trunks, as I have observed. The Cure does not therefore depend alone on restoring the Vigor of the nervous Power, but likewise on restoring

the equable Distribution of it most especially to the extreme
arteries. - While the Debility or Resistance remains,
the Spasmodic will necessarily be renewed, as it proves a Stimu-
lus to the Sensorium & to the Heart & Arteries -

We must enquire the Means by w^{ch} Nature removes this
Condition.

This is partly done by a reaction of the Sensorium
an increased Action of the Heart & Arteries. - The first
cannot so well explain; but the 2^d is one of the chief
Means, it keeping up the Excitement of the Sensorium.

Having considered the Termination of Fevers in Health,
we must consider their Termination in Death. - A diffi-
cult Problem not yet solved.

Thus here consider the General Causes of Death.

Death is the entire Abolition of the Excitement of the
Nervous Power in the Sensorium. - It will be useful

for to explain the Term Excitement. I suppose it understood
that the vital Principle in Animals is seated in y^e
nervous System & more especially in the Sensorium.

Every Function of the animal System depends on the
Nerves. - &

The Activity of the Sensorium & of the nervous Power
in general depends on a subtle elastic Fluid con-
fined to the medullary Substance -

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3. This subtle Fluid is a Portion of that Ether^{or} which Philosophers now agree exists in common to all Bodies. as connected in a State of Mixture it has no separate Motion, & only such as are attended wth Change of Mixture, but in certain Circumstances it may in certain Bodies be so collected as to have Motion communicated thro' it, without Motion in the solid Parts. - We have an Instance in Magnetism & Electricity. This I call the excited State of the nervous system. - For this Excitement of the Sensorium does life consist.

Supposing such an Excitement. It is in different Degrees in different States of animal Economy. It may be from the highest maniacal State to the lowest Degree of waking Animals; below this is the State of sleeping Animals, where Excitement is so weak that it is not sufficient for the animal Functions. - A lower Degree is that of Syncope. Here the Heart & Arteries are excited in the weakest Degree sensible, but the Sensorium is so far excited as to be capable of reacting & giving Action of Heart & Lungs. A lower Degree is ^{Heart & Lungs} Aphyxia in ^{Heart & Lungs} which are stupified, but here as Life often returns so much, supposed so much excitement as to be acted on by Impulse.

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When the Excitement is below this, so as not to be capable of Excitement it is Death.

We are now to say how Death is to be brought on in general.

1. It will depend on Powers destroying nervous Power excited.

2. Powers destroying the Organs on which Excitement depends. The 1st Means of Excitement we find to be Heat; & this is as necessary for its Support. - Cold then will have a Contrary Effect & Action on killing Animals will readily be allowed to be on the nervous Powers. Any thing in fluids or Organs is to be considered as Consequences. If this is a doubtful Instance, it will be attended to in regard to Powers. Many operate so suddenly as to give no suspicion or Proof of Action in any Part but the nervous System.

3. The Circulation of the Blood is necessary to support this Excitement, as appears from the Effects of stopping the Impulse of the Blood to the Brain or directing it in a greater Portion. It is most necessary in warm Animals & particularly in Man - What then interrupts the Action of the Heart, puts an End to Life. Pathologists have thought it sufficient to explain Death by shewing how the Heart stops - but in the Beginning of Life it appears that the Sensorium

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is excited previous to the Heart's Action. And we further find that by withdrawing the Energy of the Sensorium we stop the Heart's action.

The Pathologists have constantly marked the ceasing of the Heart's Action as the Cause of Death, yet they have not determined how this operates.

Many Functions must stop with the Heart, but this does not explain the ceasing of the vital Principle.

Thus the Amphibia whose Excitement depends less on the Impulse of the Blood, thus may be interrupted long without Death.

Physicians have explained it from supposing a Secretion in the Brain & requires the Presence of the Impulse of the Blood. This may be a Secretion, tho not for the Purposes of Sense & Motion. Whether what we have said is just, it reduces it at least to a simple System that life consists in an Excitement of the Sensorium, Death in entire Abolition of this. The Causes then may be direct or indirect. Direct are the Causes immediately taking Excitement. Indirect those that destroy Organs necessary to the Excitement.

The Direct

- 1 Sedative Poisons
- 2 Violent Excitement
- 3 Certain Poisons

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4 Cold

5 Compression

6 Destruction of the Texture of the Sensorium ~

As to the 1st I need not say, all reflex Sensations are Stimulant or sedative. That is increased or diminished Excitements of the Sensorium. how they operate I cannot say, tho' ^{they in fact} ~~they~~ certain ~

Examples of Grief destroying the System & bringing on Death ~

More evident Examples in Fear, The sudden Deaths of the Plague have been referred to Fear - This we must at least allow a ~~very~~ powerfull concurring Cause -

2^d Violent Excitement - The only Explanation is that it seems to be the Nature of the Sensorium, & all Exercise of its Excitement diminishes this - Hence we explained why Exercise attending Labour brings on Sleep. In ordinary Cases we can perceive this Exercise induce Sleep more or less irresistibly as the Exercise has more or less violence.

All pleasant Sensations, Emotions, so are the States of Excitement that induce Debility & often Death ~

It is allowed that all these tho' immediately confined to the nervous System diminish Excitement.

See has often brought on Death - Convulsions

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are a high Degree of Excitement, & always terminate in
Debility or Death

This shews then that violent Excitement may be
the Cause of Death & hence the violent Excitement
in Fevers may be a concurring Cause of Death.
Dr Pringle asserts in his Causes of Fevers that a few
Paroxysms brought down the strongest Men so as
not to stand. There are no very violent Sweats, & was
the weakening Power of the Miasma remarkable in
These Cases.

Debility then in Fevers must be referred considerably
to the Excitement in the Paroxysms & therefore this
in Fevers may induce Death

Of Poisons - unnecessary to define the Term exactly, but
or say how the several Powers operate. There are
Powers that evidently destroy Life, tho only received in
very small Quantities. Many do this by acting
solely on the nervous Power. We as evidently see
too in many that They operate as sedative Powers -
And when they are very suddenly fatal, we must
refer it to the sedative Power in Excess.

How they operate is not explained, we must only en-
quire if Persons concur in the Death of Fevers.
It would appear the Case of Putrefaction in a

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small Part of the System often endures Death, & the Action first appears in weakening the Power of the Sensorium. It is so quick often that we would not refer it to Fluids being unfit for Secretion, but rather to a morose vapour acting on the Nerves.

With regard to Miasm & Contagion we have rendered it probable that they arise from Fermentations of the Putrefactive Fluid. And tho not exactly putrid, yet have somewhat of the same Virulency.

We perceive in general their relative Effects, & tho they sometimes occasion the Reaction of the Sensorium so as to give Fever, yet often in such a Degree as to bring Death suddenly. Thus at Marseilles Death came on after the first symptoms had appear'd only two Hours. A further Analogy between Miasma, Contagion & putrid Matters appears by the Matter supplying

Putrefaction in Fevers has been refer'd both to the Effect of Fever & to a Putrid Ferment. In the greater Number of Putrid Fevers, the Introduction of a Ferment is the most common.

I conclude then That one of the most universal Causes of Death is a peculiar Poison that destroys the Excitement of the Sensorium.

There are 4 Cases of the Operation of this Poison.

1st It may depend on the State of the Person accompanying the Miasma & Contagion.

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2^d When the Poison is in the Miasmata or Contagion, tho it is not in sufficient Quantity to give Death, yet increasing with a violent Excitement may kill in a few Paroxysms.

3^d When in neither Cases it would kill, yet by being multiplied by Fermentation they encrease in Quantity as to give the Effects.

4th When neither of the three happens but as a Ferment produces such Deposition of the Blood, the sedative power relaxes the Vessels as to occasion them become putrid & then are a sufficient Cause.

The last is the most common & universal Cause in Fevers, examine the various Histories of the malignant & putrid Fevers & you will see very generally some Sphacelus or Mortification.

5th Operation of Cold. I spoke of it before, and is an Effect of -- nor is the --

6th Compression. I need not say that Compression of the Sensorium not only occasions Action but may give sudden Death. but it is seldom the Natural Effect of Fevers. The Appearance of Apoplexy & occur frequently, but we shall endeavour to shew

rather than Compression of the Sensorium.

7th Destruction of the Texture of the Sensorium. This from the increased Impetuosity in Fevers & Delicacy of the Brain has been frequently supposed. We do not however know the Operation or Signs of it. I would doubt

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of its taking place,

& I would not allow it a Common Cause.

Considerable topical Affections of the Brain often subsist long at life. - in small Lapsions that give Death, it is to be attributed perhaps rather to violent Excitement & Irritation, than the Destruction of Texture.

Boerhaave thus explains Death in Fevers & Van Swieten endeavours to support it by reasoning - but they are both ^{found} ~~at~~ wrong. It is a Supposition of extreme Vessels being greater in Proportion than the Trunks w^{ch} is directly contradicted by Dr Winton's Experiments.

Again he supposes a denser of the Solids w^{ch} by increased Impulse clogs up the Vessels, yet he in other Places refers them rather to an Affection of Serum putrum faciens.

If these direct Causes then, two only seem to operate in Fevers viz Violent Excitement & Poisons.

The last may operate by being alone, or with miasma^{ta} & Contagion or by Putrefaction in consequence of topical Effusion.

I did not think it necessary to speak of the Mors senilis. The other Causes are such as tend to an entire Abolition of Excitement - They are direct or indirect.

The direct may be referred to 6 Heads. As to the last the Destruction of the Texture of the Brain, Dr Simpson would not allow it as he endeavours to show that animals might live without Brain; but he pushes it too far,

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The Causes taking place Fevers perhaps may be reduced to Poisons or violent Excitements.

The Indirect act on the Organs necessary for Circulation. The Causes interrupting it are more remote or direct. The more remote are stopping the Supply of Chyle, hence cutting the Thoracic Duct is certainly fatal. More direct are Evacuations excessive. more immediate still are Lesions of the Heart. next obstruction to the Heart as Polypus. The Causes interrupting Passage thro the Lungs are numerous. Those connected with Fever, only are perhaps Inflammations of the Lungs by the consequent Effusion. All these act only by preventing the Impetus of the Blood & therefore take off Excitement.

In Fevers a Stimulant, sedative & septic Powers occur. any one in Excess may give Death.

Stimulant Power gives greater Spasm & increases the Excitement. The Stimulants besides may occasion particular Effusions & thereby in the Lungs suffocate or in other Parts give rise to a putrid Poison.

The Sedative concurring with other Causes may kill, or it may be sufficient alone or may be rendered sufficient by multiplication or by occasioning Effusion give Rise to Putrefaction.

The septic Ferment may act as sedative & by inducing a putrid State may give a more fatal Poison.

This Connection of -- the Causes inducing Death in Fevers & the Causes originally supposed to take

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place in Fevers appears too in the Principle genera of Inflammatory nervous & putrid.

There is a Foundation for Prognosticks; let us find if the Symptoms importing Danger are reconcilable to ^a Doctrine of Causes. I shall enumerate the Symptoms as belonging to 4 Stimulant, sedative & septic Powers. We shall see how the Experience of Ages agrees wth our Causes. The Prevalence of Stimulant Power & its chief Effect - the Phlogiston, Diathesis & a Consequence of this passion is expressed by the State of the Pulse & of the Heat of the Body. By the State of the Pulse as more frequent. This may be said is often from Weakness; but when with any Degree of Hardness or Fullness it is a Mark of Stimulant & Irritation.

Besides Frequency & Celerity of each Stroke may be taken in as a sign of Stimulus. In most Pulses not above 100 I can observe the Celerity of each Pulse accompanying the Frequency of their Repetition.

That cannot be perceived.

Frequent Pulse from Irritation is inferred from Hardness. This becomes ambiguous often from malice; but this will arise from the Tension & therefore ~~Excepting~~ in very violent Contagion, a small Pulse is often a Mark of Irritation - Hence after Bleeding often makes it fuller & softer.

2 Heat has been reckoned a Mark of Putrefaction,

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but only as the putrid is connected wth a Stimulant -
Heat coincides surprisingly with the State of sanguifer-
ous System & therefore Heat shows y^e Presence of Stimulus
The more subtle Distinction of a later

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not certain of - The Heat is expressed, first in the State
of the Tongue as more or less covered with Floc. To pre-
serve the Tongue fit for Taste, there is a more exhalation
of a Fluid w^{ch} leaves on Evaporation a thicker Part. In
Electrics & Children the Fluids are so thin as not to give
a Sediment but this always happens more or less in Adults,
and when the Heat of Fevers exhales more than is more
mucous Sediment - it goes so far as to give a dry Coarst.
Why it changes Colour we cannot explain.

Heat is expressed by thirst from the Mouth & Fauces
turning very dry - But Heat is not the only Cause of Thirst
Thus Spasm in a Cold St. Putrid Matter in the Stomach.
Depressed Heat too are connected on the Surface of the
Body

& Scanty high coloured urine. This is a Sign of Heat
& of the Determination at least of Expiration to y^e
Skin. Perhaps the Heat occasions the Blood to part
with more of the colouring Parts of Urine.

The Absence of Remission - I have endeavoured to shew
that the Protraction of Paroxysms depend on Stimulant
Powers. But this Stimulus may be continued with
Debility or Septic & when these act we shall find the

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Symptoms of the Stimulus proportionally lessened.

The Inflammatory Fever from violent Excitement may be dangerous, yet it is the safest Fever when ^{the} not attended w. topical Affection. The Inflammatory State only becomes dangerous perhaps when there is Determination to the internal Parts. I cannot help illustrating this by the safety of the Rheumatism when the Determination is to the external Parts. A Practitioner of 40 Years said he never saw Death from the Rheumatic Fever. In 30 Years I never saw it, except when ending in a Topical Determination. These Determinations I refer to 3 Heads.

1 Determination to the Brain

2 — — — — — to the Lungs

3 — — — — — to the abdominal Viscera.

As to the 1st it arises from the laws of Circulation. — in the increased Action of the Heart & Arteries — must without topical Causes necessarily take place to the Head; & is found in the

Sweating in Consequence of this Determination appears first on the Face & perhaps Ears. *Thermista*.

The Determination is discovered by an unusual Pulsation of the temporal Artery, a Torpor of the Face, protruded & inflamed Eyes — increased Sensibility of Sight & — — — — — Violence of Head-ack Constant Watchings, Violence of Delirium.

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These are not ambiguous wth regard to Cause, except Delirium - This is to be distinguished by the Mode of Delirium, being its being attended with greater Rapidity of Thought, by Impetuosity of Emotion & Passion. Where these concur with other symptoms, I take it as a Mark of increased Impetus of the Blood to the Head.

The Congestion is generally the Cause of Inflammatory Spasms, yet the Impetus increased may give the Congestion - hence Phrenitis may arise - & therefore an Irritation fixed to the most tender Part.

9. Determination to the Lungs - From their Nature & Function every increased Velocity of the Blood must especially be felt there as as much must pass thro them as thro the whole System.

But then they are exposed to the Air; from both which Peripneumony is the most common Inflammation

The increased Velocity in the lungs gives difficult Respiration. The intercostal Muscles are taken in often & shew it more laborious. But often too all the Muscles are employed that can move the Ribs. A difficult Respiration then will express a particular Determination to the Lungs. - The same is expressed by the Decubitus difficilis. tho this may arise from Affections of the other Viscera yet in general it happens from the Lungs.

It will be more fully expressed by Pain of the Thorax, Cough & more Certainly if Cough is attended wth catarrhal symptoms. The strongest Degree of Inspiration is expressed by a Turgescence of Countenance & a more bloated look

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Appearance than in Determinations to the Brain -

3^d The Determination to other internal Parts, tho' not vital, yet as giving Irritation from Congestion, & especially as these Viscera are liable to Effusions, & from Suppuration or Putrefaction may bring on Death, hence topical Affections of the abdomen are Dangerous.

Often Detected only by Inspections but in general are to be inferred 1st from Vomiting. This may arise from a certain State of the Sensorium or Surface, but when not to be suppressed by saline Diaphoretics or Spatics, it is a Symptom of inflamed Viscera - more certainly of a Painful Tension of the Abdomen, as happens in Intermitteints or continueds from this. As such Fevers were chiefly Objects of the Antient Practice, so They speak most of Inflammations of the Liver, Spleen &c. Tension then in general & Inflammation may be marked by topical Determination to the abdominal Viscera more certainly if there is Local Pain -

The Effects of Stimulus becomes more dangerous as combined wth Sedatives or Septic Powers, as it not only overto its own Effects, but as it aggravates the Effect of Cause. As increasing Obstinacy of Miasm & giving the Effusion that may be Dangerous -

The Prevalence of Sedative Power may depend on various Causes.

1st As the Person is weak from Evacuation, Disease, grief watching &c.

2^d On the Power of the Miasm. & Contagion

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3^d As with (2) the concurrence of Fear & Despair - The Presence of these are often the Marks of the Strength of the Cause, but without this Timidity may conclude.

4th Repetition of Paroxysms.

5th Excessive Evacuation.

6th In Consequence of the Cause being increased by Multiplication.

7th A Particular Generation of Putrid Matter.

I shall mention the Signs of Debility in the 3 Sets of Functions. - vital, natural & animal.

the symptoms as arising in the several Functions.

In an animal as they affect voluntary Motion. Debility appears from a considerable loss of the sense of Debility preceding the more formal Attack of the Disorder.

In the attack it appears more by the loss of muscular strength.

At first the Debility of muscular strength amounts to the Difficulty of keeping on if legs. he at first can support himself in a sitting Posture further on he cannot bear this - he lies along, when few Muscles are employed in lying abed we see the Progress of the muscular Debility, in the Facility with which he turns.

At last he cannot turn except by the assistance of a By-stander. Even here we may observe him to contribute more or less - lies at last on one side & further can only lie on his Back. further if the Bed declines he cannot support himself from sliding down. goes forth when he exerts himself by erecting his knees to prevent

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The weakness is further expressed by this, that every Effort of muscular Action is attended at Times, the certain sign of considerable Atonia - not so mortal when affecting whole Limbs: but if confined to small Parts as the Tongue over which we have more Command, it is worse. Still more when the Motion of the Eye is attended with Spasm - when they are convulsed in squinting appears when the Ball turns up, & the Eye lid does not, even from the long Habit, follow it. - Convulsions express great Debility, & are as much the Effect of this as Irritation. - Accordingly all mortal Diseases have convulsions at the last. In Hemorrhages fatal the last Effects are expressed by Convulsions. These Symptoms exasperated are expressive of the weakening Cause of Fevers. Next in Sense & Thought. The particular Symptom here is the Tone of Mind. Dejection & Despair either in sentiments or Countenance. A certain Tone of Mind attends a certain State of Body. one is attended with Cheerfulness & Hope, Courage & Alacrity; another with Sadness, Timidity & Despair. From a Number of Instances in which they occur, we can say they are nearly as the index of the sensorium. - It applies too pretty generally to the Vigor of the System in general. Dejection then & Despair arising from the Disease in Persons of Hope & Courage give great Marks of Debility. -

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If expressed in the Countenance the not in Sentiment.
we may suppose the same State of the Sensorium.

In a Person of Health the Eye is open, is directed to a particular Object Steadily & is directed to a Diversity with a Rapidity as quick as Thought. There is a certain Agility in the Muscles of the Face too. Debility then occurs when the Eye scarcely opens when it wanders languidly when loose in its Attention - when the Muscles are lax & expressive of Despair. - I find takes his chief Progress from the Expression of the Countenance. The rest of the Symptoms of Sense & Thought express rather the resistance to the Action of the Sensorium.

Thus it appears in a Confusion of the Head, when Recollection is not easy, & the Mind does not pass from one Idea to its usual Associate, proceeding at last to almost a Loss of Memory. Thus we must suppose to depend on an Interruption of the Motions and these all probably depend.

The Resistance appears when the Ideas are incoherent. This is the State of Delirium. It might be proved that all Incoherence of Thought depended on an unequal Excitement of the Sensorium. - We may suppose it to arise from Absence of Excitement in one Part, or the unequal Excitement in one. Excitement appears to depend on the Action of the Heart & Arteries most; but this increased does not give Delirium except Resistance in one Part.

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On this supposition it may be of 2 sorts -

Resistance may not be very great, & yet great Impetus excite Delirium. If Impetus not very great & yet Resistance very great Part. Incoherence may arise. When Delirium appears without great Impetus; then with the symptoms of Debility. When the Incoherence of thought is not rapid & attended w/ violent Emotions. All these symptoms I take as Marks of Debility or Resistance in some Part of the Sensorium. It will appear more when it is connected with a State of Sleep. The ordinary Impetus in unequal Excitement is sufficient to give Delirium. Thus every Man more or less determines on going to or coming from Sleep. - Certain Associations are so constant & long established as to remain w/ some Delirium. If these then are interrupted, greater signs of Resistance. Thus the forgetting Drink when called for. or even: making Excretions without calling for the Instrument: usually requires. All unconscious Excretions then are a very bad Sign. That is when evacuated in the usual Way, & from paralysis of Sphincters. - Insensibility to Thirst, when Heat & other Causes subsist is a great Mark of Interruption to the Functions of the Sensorium. It goes further when the Insensibility of the other Senses takes Place, as False Vision or Loss of Sight.

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The most ordinary Instance of this false Vision is when he endeavours to remove false Objects on the Bed Cloaths from him. - Still further when a State of Sleep comes on. - Sleep in Fevers is not reckoned a bad Symptom of the Sleep is natural. but we distinguish between Sleep & Coma. Coma is Sleep in a higher Degree than Natural. -

Sleep in healthy Persons may be from Compression or a collapse or sinking of Excitement.

That the Coma of Fevers depends on the latter is evident from its appearing in the natural Way & only arising to a greater Degree of Sleep. Thus these Degrees I reckon it only an Excess of the same Nature from the Sickness of Recovery is often happens. Compressions from Effusions &c. are seldom so soon removed as not to leave some Effect.

In the Vital Functions of Circulation, we first mention as a Mark of the weak Action of the Heart. When it cannot bear the Action of Gravity in the Blood & therefore not propel the Blood in an erect Posture so as to keep up its Action & excite the Brain. This might be reckoned an Effect of the animal Functions, but when Liddiness is preceded by Tremulousness. I consider it as a Symptom of weakness of Heart. Less Ambiguity in the Pulse. Great frequency is a mark of that Instability of the Heart, when

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it does not evacuate itself & therefore is soon filled and irritated to contraction.

We said Frequency was also a mark of Irritation; but we may especially reckon it from Debility, where it is weak, more if irregular, & further if concurring with the symptoms of Debility.

We have an Instance of Debility too in Slowness of Pulse sometimes.

This is difficult to explain - we can say that When the Pulse is slow in proportion to the Affection of the Sensorium. - We may reckon it a Mark of Weakness. It is a sign that the Energy of the Sensorium is not excited towards the Heart. This will explain the Slowness of the Pulse in nervous Fevers when the Sensorium seems evidently affected -

Heat when lower in Proportion than would be expected from a feverish State, it is a certain sign of weak Action of the Heart in consequence of weak Energy of the Sensorium.

We may explain animal Heat variously, but it is somehow connected wth a certain Action of the Heart & Arteries. Debility appears in the Lungs when respiration is small - i.e., when the Contraction of the Diaphragm is not excited wth sufficient Force & extent. When neither this or Intercostals are able to dilate the Thorax sufficiently - when on the least Motion, Respiration

becomes extremely frequent; thus if a Person on speaking a little, taking a Drink or moving himself, is affected with very frequent Respiration, it is a Mark of Debility.

Labourous Respiration is in very different Degrees & a mark of Debility. We labour some when we take in the Porter: costals. Still further Debility when we require the Muscles between the Scapula & Ribs. And a fixed Bond must be given that they may act. When their Head is stretched or Scapula raised, it is a mark of great Debility. Still more when we take in the feeble Assistance of the Pinnæ Narium to impel as it were the Air into the Lungs.

On this Subject we must add the Change in the Tone of the Viscera. ^{Voice}
The Tone of the ~~Viscera~~ depends on the Organ of Respiration being so far under Command as to push the Air as the Expression of Sounds requires when the Muscles of the Glottis, when Health we govern with great accuracy & when Debility it is a remarkable sign & still more when it arises to a perfect Aphonia.

Besides these Symptoms when the Heart does not propel the Blood to the Extremities so as to be cold, it is a great Mark of Debility. When Colour fails in the Eyes & Face it is a great Mark of weak Circulation. Still more if besides Change of Colour there is a shrinking of the Face, the Hollow Eyes, Cheeks & other Signs of the facies

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For the natural Functions of Appetite & Lactation we must consider the Symptoms without examining the Connection of the Stomach & Sensorium. It is a fact of Vomiting is a Mark of Debility and since so frequently attends Delirium. Animi. If the State of the Sensorium depends on the Impulse of the Blood in the cerebral Arteries, we may readily explain the Want of Appetite. We might explain this Want of Appetite otherwise, but in general it is a mark of Debility as it often proceeds in proportion to the Symptoms of Debility.

In the Excretions

The outlets of Economy for certain purposes are provided with certain Sphincters that do not open except on necessary Evacuations, when this Constiction is also loosed it is a great Mark of Debility. The Difficulty of Deglutition is a considerable Mark. You may enumerate many other Symptoms of Debility. I have mentioned enough for you to judge of the Strength of the sedative Cause & of the Danger. I must add that all these Marks are more dangerous when connected with a stimulant Power. When this happens appears from considerable Sensibility at the Beginning of a Disease, while Marks of Irritation in Congress are not so prevalent. Interrupted Sleep, Languor & Drowsiness show Marks of Debility, but when they are interrupted it is a Sign of Irritation. Still more

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When there happens watching for Nights & Days - The
 Irritation is expressed when without violent Emotions,
 there is constant Restlessness & Desire to get out of Bed.
 When Vision is quite destroyed, there is often a Contractu-
 ria Manuum joined to the Impatience of getting out of
 Bed, which is a mark of some Irritation. - A great Frequency
 of a weak contracted Pulse will be a mark of Debility, but
 is especially a Mark of Irritation subsisting in great De-
 bility. - When Spasm subsists in great Debility, a Mark
 of Irritation - hence termed Tremor in Fevers is ge-
 nerally a Mark of Irritation - Convulsive Motions
 often occur in Irritation & Debility as
 Subultus Tendinum.

When we consider how often Miasmata & Contagion
 are connected with Putrefaction & how often they have
 more or less of Septic Ferment.

We shall think that the Reason of Fevers is centered
 almost entirely in that of the Putrid Kind, as would
 not entirely refer to this, the no where greater Danger
 than in those Cases where Tendency to Putrefaction appears.
 The Tendency to Putrefaction is expressed first by Nausea
 & Thirst. The Presence of putrid Matter in the Stomach
 is attended with Nausea. When no Putrid Matter is known
 in, or any Reason to expect that the Matters have become
 so, yet if very considerable Nausea we may suspect a
 Tendency to Putrefaction - Even vegetable Matters may

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become putrid, & therefore is such Nausea excited for
taking off all Appetite for Food, & great Thirst
that much may be taken in to dilute the Putrid
Matter & promote its Expulsion by ^{the} Emmenotories.
Hence great Thirst a Sign of Putrefaction. These are
ambiguous, — more certain and offensive Tastes in
the Mouth, & Tinge of Breath may be a very strong
Mark.

First we may distinguish it in the Color of Urine —
High coloured Urine we said attended Stimulus, but a
Difference between this & that peculiar to Putrefaction.
The latter is not the high coloured brown but has more
red & generally turbid.

Frequency of loose Stools if these are very fetid, vari-
ous Causes of Diarrhea in Fevers but especially
from acid Bile in the Intestines. It appears that
Bile is thrown in great Quantity on the Intestines
especially in putrid Fevers.

It is most disposed perhaps to the Putrefaction of our
Fluids. however it be certain it is, that it accompanies
the Marks of Putrefaction & is favoured by Stagnation
in the Intestines.

More certain Marks are the Deposition of the Blood —
When by cooling it becomes a gelatinous Mass, with-
out the usual Separation of Crassamentum & Serum.
This is hardly to be influenced by the manner of Drawing.

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Therefore when appearing much, it is a Mark of the
 Sympth having lost some Power of correcting & this the
 consequence of Putrefaction.

Then the Coagulum is formed the Matter may be
 doubtful, but the Colour of the Serum has influenced
 the Globules are to be dissolved in Serum as to give
 the Appearance of the *Lotura Carnium*. It is a mark
 even without this, a yellow Colour is a sign of Putrefaction.
 The Yellow arises from this, or from a reabsorption of
 Bile. When no Cause w^d could give Rise to this Reab-
 sorption, it must be I think referred to the other Cause
 cases where the Matter is more ambiguous and those
 I have an Inflammatory Buff. This has been ge-
 nerally referred to an Inflammatory State, tho the
 theory is false, for in the Scurvy & other Diseases of
 great Dissolution this has appeared. It is not then a
 negative to Putrefaction & besides it does not appear much
 Concretion as that in the pure Inflammatory.
 I have seen the Sympth separate but it was
 between it & the Globules was a gelatinous Mass.
 It is too in less Quantity than in the pure Inflamm.
 matory. We may still more certainly determine
 Dissolution, if the subacent Globules are more readily
 dissolvable.

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In Consequence of this Disposition Hemorrhages are re-
garded a Mark of Putrefaction. Partly is this owing to a cer-
tain Atonia taking place in the Vessels at the same time.
The Effusions appear in different Shapes. In Women by
the Catamenia appearing before the usual Period. Where
it discovers itself by a very dark red & often a subsiding to the
Bottom. The Nose is subject to Hemorrhage. & is a mark
of Putrefaction when without Crisis or Inflammatory
Congestion evident. Corners of the Eye & even Pores of the
Skin have poured out Blood. - Blood from various Cir-
cumstances poured into the Alimentary Canal - more or less
fluid is it rendered by Vomit or Stool.
It is a mark too when the Blood is effused into the Cellular
Membrane & the rete mucosum. In a moderate
Degree it produces the Petechia so much spoken of lately.
Death with regard to their Appearance. In the latter
End of a Disorder they may not only depend on Disposi-
tion, but also on relaxation of Vessels. Hence may
perhaps prove critical. They may be more innocent
at least when appearing late & without much Marks
of Putrefaction in the first Cause. If occurring at first
they give Sign of the Atonia brought on by the Strength
of Putrefaction. More Dangerous as declining from the
flourid Colour - & still worse when so considerable as
to form Maculae & Urticariae.

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Also the Disolution appears when the Vessels are relaxed so as not to pour out red Globules but the Serum, & gives the yellow or yellow Fever. It is not Bile from the Arguments given just now, & especially from the very good Marks of Putrefaction in this Fever. - yellow Effusions are likewise in the Bilious Fever of the West Indies, but the malar Fevers of more northern Climates. These are of the same kind only the last comes on later & therefore as being more from Relaxation than Disolution may prove critical.

The Factor of Effusions gives a Mark. Thus the Factor from Discharges of Bile, sweat, &c. I cannot well distinguish the various Degrees of but offensive Odours in sweat & Perspiration are often forerunners of what Authors distinguish under the Title of Cadaverous Odour. It occurs often some Days before Death & is a very certain Sign of its approach. This putrid State may be combined with an inflammatory or stimulant & especially at the last, with a State of Debility or sedative.

We have now gone over the Symptoms of Fevers arranged as they express Irritation, Debility or Putrefaction. I conclude this Subject of Progress & Recede observing that there is generally a Concurrence of these Powers, & their Degree must determine our Judgments.

This leads us next to the Method of Cure we cannot

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give a Method as applicable to particular Species, as we have not ascertained them. We shall only give a generic Cure as applicable to Genera. In all Nature where there is Uniformity in Principles, yet thro' each particular they are such subtle Differences as often escape us. - Our Conduct must be regulated by generalizing our Views. - Our Method perhaps will apply however to Differences of Species & Varieties of Varieties - for if we had entered on it, we should chiefly insisted upon the Difficulty of establishing & the Limits to be observed - What we have said of the Causes & Prognostics lays a Foundation for the Method of Cure - Our Causes agreed & the generally established Genera of Fevers, of Inflammatory, nervous & putrid.

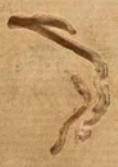
My Plan of Cure is to be reduced to the 3 general Indications corresponding to the Causes of their Genera, as follows: Stimulant, Sedative & sothe Power prevailing -

- 1st To take off Excess of Spasm.
- 2^d To restore Vigor of the Sensorium, especially the equal Distribution of the nervous Power
- 3^d To obviate Putrefaction.

The Part of our System will be conform'd from our finding the most confirm'd Remedies arrange themselves under these Heads.

- 1st To obviate the Excess of Spasm we employ
- 1st The antiphlogistic Regimen, consisting in the

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moderating their Irritations that are constantly & unavoidably applied to the system, & at the same Time amending every other Irritation within or without.

2. Remedies suited to take off Phlogistic Tension - viz Bleed^g & Purg^g (considered as an Evacuation) & the Medicines called *aperients*.

To restore Vigor of Sensorium &c.

For this Purpose we employ Diluents, Neutrals, Sudorifics,metics, Blisters, warm Bathing, cold Drinks & cold Bathing, Cordials, Antispasmodics & Tonics. I have chosen single Terms. What has been meant under each will appear hereafter.

3. To obviate Putrefaction we employ certain Means of withdrawing the Ferment, antiseptics, & Tonics. Let us consider them particularly & 1st Antiphlogistic Regimen is called because most fitted to the Cases where Phlogistic Diathesis takes Place.

It consists in avoiding all Irritation - This Attention is indicated in all Fevers. Certainly in all States of a Fever where any hot fit yet subsists - yet making this universal is wrong - For as Fevers arise arise of from different Causes, it will appear that seeming Irritations are proper. There is no Ambiguity, & indeed will seldom occur at first. However in the latter Stages too we shall find that the Presence of an Inflammatory State on any render the avoiding this necessary.

In Cases of sedative & Septic Powers, this is necessary.

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Especially with Stimulants applied to the Sensorium only appear allowable. But wherein Spasms subsist perhaps Stimulants are hurtful. All the Cases I can find where Stimulants are proper are attended wth little or no Spasm. — In Cold Fits of Fevers they may be admissible if we can perceive the approach before the Spasm is formed; but here is Spasm absent. In Intermitents after Paroxysm is come on, every Stimulus tends to lengthen the Fit. & are serviceable only in Intermissions. Another can or may be in Continued Fevers. — In the latter Case Ambiguity for the Inflammatory Congestion may be when we do not readily perceive it. — We conclude therefore that Stimulants are not admissible as long as the Hot Fit remains.

The Particulars of Antiphlogistic Regimen are

1^o To avoid Sensations & hence avoid Sight & Noise, but more especially do we avoid Impressions & Sensations that occasion Excitation of Thought. But Thinking is difficultly avoided & rather only difficult especially in the Beginning of Delirium. This Consideration gives me a Doubt with regard to his general Rule of avoiding Impressions. — for in the rambling Thoughts of Delirious Persons I think I have found Sight & Noise necessary to bring back our ordinary Train. This is more necessary when ^{if} Delirium is accompanied wth violent Excitement. I have frequently put off a Tendency to Delirium by having sight or a Companion put off the Sensation from internal Impressions.

2^o The avoiding Bodily Motion — Motion of all kinds

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an Irritation to the Sensorium; but if we consider
how much the Sensor of Muscles is connected, the Excitation
of Muscles influence the Sensor of the whole System.
This is not attended to. I think that our Views on (Bleed)
are often frustrated by keeping the Body in a Posture
when many Muscles are in Action. Hence the Advan-
tages of Bleeding in a declining Posture, not enough
consider'd. The least muscular Action is excited when we
lie on the Back - but this is not eligible, as it retards
the Return of the Blood to the Head. - The Head then should
be raised & the Tendency to slide down may be obviated
by raising the Feet, provided this can be done without
pressing the Head, especially in Motion to be avoided
if accompanied with Tremor or Delirium.
The avoiding Head & Cold - You are doubtless well
acquainted of the great Powers of Heat & Cold on animal
Economy - that they may be Potentia nocentes in use.
Remedies, but have that the Transition from one to
the other takes Place by very slender Changes in Degree or
circumstances. The Attention to these difficult as their
effect does not depend so much on their Intensity &
as on the relative State of the Body. - I have con-
sidered to bring out the Principles on this Subject.
We said that supposing human in the most perfect
state, it is, allowing for Climate nearly at 98°
the Temperature of Body would not subsist without the

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Medium surrounding it is cooler. Whatever Exceptions the Fact is very general. The supposing the Heat of the Body must depend on the Heat of the External Air & the Temperature of the Air it is best adapted to preserve this Heat of the Body in our Climate is 62° . When above 62 the Body feels hot, when under it cold. To Determine their Effects in Fevers. Physicians have observed that a certain Heat was hurtful, but this not sufficiently ascertained. Sydenham perhaps first observed that Rheumatism & other Inflammations were aggravated by a certain Heat. And his Observations shew that such Heat proves a Considerable Irritation & therefore hurtful in Disorders of the Inflammatory Kind. It appears that in such Cases a Degree of Cold less than 62° is useful. The Question is to determine the Limits of this.

When Diathesis Phlogistica are evident, there is no Danger of applying Cold considerably below 62° . This is a Case in which the Effect is as much determined by the Condition of the Subject as by the Intensity. Here appears that Vigor renders People less affected by Cold & by its generating greater Heat makes its Temperature lower than the Standard necessary.

In the small Pox it now appears that a Considerable Cold is allowable. I explain it from the Exacerbation of the small Pox having great Stimulus, & accordingly after the Eruption the Fever brought on in consequence

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of that Irritation inducing - Diathesis Phlogistica.
Whenever perhaps there is a hot Fit fully formed, the
Body as increased in Heat perhaps requires more Cold
than 62° - Cold then is useful in some Cases, & at least
in all Fevers every Degree of Heat above 62° is hurtful.
The Cases in w^h Cold may be hurtful, are when Spasm is
not yet formed or Hot Fit come on - The Body then is
in that State of Debility that particularly favours the
Action of Cold. When therefore Fevers approach very gra-
dually & with great Debility, the Exposure to Cold gives
greater Debility & more dangerous Spasm.

At this Time Heat by preventing the sinking of the
Sensorium & obviating the Constriction of the extreme
Vessels may be useful.

When in formed Fevers the Sedative prevails & there is
Danger of the Sensorium sinking in extreme Degree.
When in Fever it is necessary at the first attack to
force Sweats Cold is dangerous & Heat is useful.

This usefulness of Heat will appear to you contradic-
tory to the universality of an Antiphlogistic Regimen.
I shall assert that all general Stimuli are hurtful, but
I shall make exceptions in favour of Stimuli that act
partially. Thus Heat acts principally on the extreme
Vessels - relaxes them & gives Rise to an increased Exer-
cise of nervous Power.

In critical Sweats Heat is admissable. this is confirmed

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by universal Experience, but not easy for Practitioners to apply the Rule. Difficult to determine when Sweats are critical - When Sweats are attended with more softness & fullness of Pulse with less frequency - When the flowing of sweat is attended wth Relief of Heat, Thirst, Headach, Delirium, Restlessness & difficult Respiration & with Sleep. there is no Doubt but such Sweats are critical, but that Cold would be hurtful by suppressing it & that a greater Heat of Body may be admissib^{le}. but there are Colliquative Sweats in a^d Heat. Short & full. Certain Sweats are salutary if not urged by external Heat, & if so often prove pernicious.

Heat by being pushed too far may encrease the Hot Fit, hence occasions topical Determination & therefore the Management of Heat extremely difficult.

Critical Sweats then, & certain contagious Disorders which we shall mention, are the only Cases of continued Fevers that admit Heat.

In Intermittents there is both Hot Fit & accession. In the latter Heat admissib^{le}, in the former it is so soon to terminate in sweat that we would not apply Cold.

6th Humors and Aliment.

Heat - The Action of the Stomach proves stimulant of system - and hence a frequency of Pulse attends the first Operation of Digestion. Food then is always stimulant. Abstinence then in Fevers is extremely necessary - but as we cannot refrain from some Food, we

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must at least ^{to chuse} ~~and~~ that of greater solubility & ^{least} Alka-
lescence. Hence liquid Foods are & alka-
lescent avoided as giving Stimulus & increasing putre-
factive Tendency in Fluids. The Rule of this Country
is to abstain entirely from animal Food is proper —
The Antients had a Nicety in giving Diet of ^{use} we know
Nothing. The Inhabitants of warm Climates indeed may
require more regular Food as more sensible to Changes: but
their Doctrine was found as much on Theory as Experience.
What is solid in these Observations amounts to this —
If Appetite for Aliment. Thus discovers the severity
of the Disorder & therefore Stimulus of Aliment less
Dangerous — But tho' the Appetite may guide us yet
we may very readily go to excess. And therefore this
Rule not so general as that of avoiding Aliment when
no Appetite.

2^d Abstinence is most useful at first — at the latter
end of the Disorder, aliment may be useful to support
Strength. In Intermittents we are to take that Time
for Aliment most distant from Accession & in conti-
nued we are to give Aliment in the most perfect Re-
mission — This Attention to Time becomes less ne-
cessary, as we are cautious in giving mild antiseptic Food.
The Antients rejected properly all stimulant Liquors,
that is all Liquors impregnated with aromatics & from
all fermented Liquors — hence Wine. Disputes with
regard to this, we shall consider hereafter as, of

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admissible it must be as a Medicine - I do not how:
ever agree wth Celsus in supposing that Abstinence
from usual Wine is of more Consequence than subtract
usual Food; but Food not only stimulates the Stomach
but remains longer & fills the Vessels. - This indeed will
be relative to Habits - If a Person uses vegetable Diet
& much Wine Celsus' Rule may take Place; but Wine
is attended wth considerable Dilution & an agreeable anti-
septic Acid.

As to stimulants arising from the Body we must avoid
Thirst. This is generally in Proportion to the Demand
of Drink, & when we consider how useful Diluent Drinks
are on several Ac^{ts}. I see no Foundation for some of the
Authors recommending Abstinence from Drink for
3 Days - Thirst as a Stimulant ought on the anti-
phlogistic Plan to be removed. - As to the antient
Rule a Case is explained by Dr Cleggorn.

He says in the greatest Urgency of the Thirst in Prox-
ymos of Intermitents the Spanish Physicians do
not give Drink till sweat is ready to break out.

He finds a Reason just in the great Collection of
Blood in lungs &c. - it would be aggravated by filling
the Stomach. - Besides this, these Physicians say
that Drink tends to prolong the Fev^r & the whole sou:
their Practice has this Tendency - We shall hereafter
explain this perhaps. We may observe that Drink is not

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to be regulated by the Thrust of The Patient.

2^d Condition of Primæ viæ to be removed, whether from Ingestion or Fluids of Primæ viæ thrown out in too great Quantity or vitiated Quality.

3^d Stimulus from Costiveness. - In all fevers not remarkably below & putrid, Costiveness commonly occurs. It arises from the general Constriction of Extreme Vessels. The Tension of the alimentary Canal has great Effect on that of the System - Hardened Faeces collected then will prove stimulant - But further in Fevers Fluids are accumulated in of abdominal Viscera. This must be increased by the Constriction of Vessels of the Intestines & therefore the relaxing them & evacuating the Faeces will relieve this. Glysters are proper for this, tho not more Stimulant than just to answer the Purpose, otherwise Purgatives.

4th To obviate the Acrimony of the Fluids in general Every Person will admit that in all Fevers there is a Tendency to Putrefaction & alkalescency. Hence that this must be moderated by antiseptic & Aliments & considerable Dilution. Physicians have spoken much of the Dissipation of the Fluid Parts of the Blood, hence an Inspiration of the remainder & therefore a Lentia supposed. This allowed, & we shall not now examine, Dilution appears equally

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necessary. Therefore Dilution ^{is} a considerable Part
of antiphlogistic Regimen.

We proceed now to the taking off Excess of Spasm
When it occurs. Many of the Particulars of antiphlo-
gistic Regimen are applicable here. You will easily
discover how many of these Particulars as operating
usual Evacuations are withdrawers from Competence
of Spasm.

We especially however abate Spasm by taking off
arterial Tension particularly that in a *Diathesis
Phlogistica* consists.

What ~~is~~ Difficulty there may be in explaining
how the increased Tension of the Arterious system in-
creases Spasm, the fact is certain - for we find
the increased Action of the Arteries greatest in the *Phlogmasia*
where *Phlogistic Diathesis* is certainly present.

Because this Diathesis gives longer Fevers when it occurs.

Because whatever Stimulant has the Effect of exciting
Arteries gives greater Spasm, longer Paroxysms, & there-
fore often changes Intermittents to continued Fevers.

The Remedy of the *Phlogistic Diathesis* is Blood-letting.
The Tension of Arteries depends partly on Increase of the
Action of the Sensorium partly on distending Fluid. Hence
if we consider how Evacuating takes off the Tension & how
the Tension of one Part is connected with that of another
we shall see its Effects.

And then V.S. should have the *phlogistic Diathesis*.

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But tho V.S. is indicated in so many Fevers, yet we must consider that the Excitement, the vigor of the Sensorium depends on a certain Tension given by the Heart & Arteries to the Vessels of the Sensorium. When Debility prevails in Fevers & they end fatally, it may be not only from Poisons attacking the Sensorium, but may take off the Tone of the Arterial System. Poisons indeed may do this - It appears from the Dissections of the Persons who died of the Plague at Marseilles & others, the Heart was found distended commonly to double its natural size, Arteries full & very turgid wth Blood. Liver commonly of double natural size, all these are to me proofs that the Tone of arterial System was so weak that the natural Contractility could not unload them as usual - hence to be considered as a principal Cause of the Death.

When Death arises from Causes of Debility it appears in the Weakness of the Pulse. When these Causes of Debility occur, when the Debility is approaching or when Reason to suspect to Debility is soon to prevail it is dangerous to employ means for taking off Tension of the Arterial System - There are therefore demerits to V.S. even in Fevers very inflammatory. There is not a more difficult Lucotion than when V.S. is to be employed in Fevers. There are here 2 general Rules, indicating or contraindicating it.

1st Indicated when Stimulus is more in Proportion than Relative or Septic. Many circumstances determining this. We know stimulant Power to prevail when at first the Pulse is very frequent, accompanied with Strength & Fullness

and especially if joined to a sensible Hardness
Then considerable Heat too is present & also when the Celerity
of the Stroke is perceptible. This will be more indicated when
appearance of topical Determination, as Head-ach, furious
Delirium, Difficulty of Breathing.

When these Marks are not sufficient by decisive, we take
in other Considerations. Thus when we know that Causes
more evidently stimulant have preceded: as when the
Patient has been exposed to great Heat, Labour or Cold.
I would not be positive but Cold may excite Fever alone
it at least determines particularly to Phlogistic Diathesis.
Another Consideration is the previous known Vigour of
the System known to be disposed to Phlogistic Diathesis.
Hence in the robust & youthful. The ancients from their
Climates perhaps avoided Bleeding in very young &
very old Persons. The Generality of this Rule was doubted
in Celsius Time. yet certainly old Persons are less
disposed to Phlogistic Diathesis. In very young Persons
the Faculty is greater & Tension less. So that V. S. less neces-
sary. In the Advance of Life Caution necessary.
Other Circumstances determine to Phlogistic Diathesis is
as cold Seasons & cold Climates.

In such perhaps there is always more or less of it, but by
living so freely here, we have badly transferred to warm
Climates the same Practice.

2^d V. S. indicated in Proportion to the recency of the Disease
as Phlogistic Diathesis is then greatest.
The Contraindications of V. S. are for the most Part con-
verse of what we have mentioned. Accordingly forbid there:

over Sedative Power is present, or is expected to prevail, but we are here to determine by symptoms when the Pulse is not quick nor full & especially if weakness of ^{the} person, and animal strength.

Other Considerations where they are conbriguous. When Sedative Causes have preceded Death may arise. A Sedative either does at first or soon well succeed in Fevers from Miasmata or Contagious Cause is to be had. We may use V.S. at first perhaps, as much in Inflammatory Affections often attend. In Miasmata & Contagion V.S. appears in general dangerous. Other Causes of Debility influence these as when the Disorder succeeds large Evacuations, other Disorders, Grief, Fear, Watching &c. In all these V.S. is to be abstained ~~from~~ or used with great Caution.

When Disposition to Debility & Putrefaction. Hence V.S. carefully to be used in warm seasons & Climates. We see warm Weather take off Phlogistic Diathesis & besides gives a Tendency to Putrefaction. As the Disorders have subsisted long & therefore Debility a Tendency to Debility may be more expected. If the Diathesis Phlogistica has the chief then in forming continued Fevers. In intermittents we may presume its Absence. And hence we find Intermittents & Diseases changed from them ^{re} Intermittents do not admit V.S. If from Phlogistic Diathesis they should particularly require Bleeding; yet the more of Intermittent in Form, the more Caution must we have in V.S.

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These are the general Rules of Practice I regard to V. S.
These have arisen from Considerations before Trial, but
Practice has furnished us with Signs. If the Pulse becomes
softer after V. S. it is a Sign of Phlogistic Diathesis present—
If without great Debility the frequency & Celerity are dimi-
nished after V. S. it is good; but it must be avoided here if con-
comitant Signs of great Debility.

If it relieves Difficulty of Breathing, the Decubitus Diffi-
cilis, the Delirium &c we may be certain of its propriety.
Another Mark is the Appearance of the Blood itself.
If it has flowed in a full Stream from a large Vessel &
cooled very suddenly & it still is a uniform Coagulum
we may suspect Deposition & Debility & hence a Contra-
indication to V. S.

If under these Circumstances there is a full separation
of Crassamentum & Serum & a Separation of Symph. suffi-
ciently tough on the Top, V. S. is established. As proper
Serum not separated is no Mark of debility, nor is a less
separation a Mark of Phlogistic Diathesis—As I
have found by Experience—Indeed I think that small
Crassamentum with Buff. that by its Contractility
draws up to a Purse gives the greatest Mark of Phlo-
gistic Diathesis. When the Crassamentum is diffused &
has a Plain Crust on the Surface wth little Serum sepa-
rated, I look upon it as a Symptom of less phlogistic
Diathesis + The Serum as more or less red, like the
Lotus Carnium, shows Putrefaction.

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Yellow Serum too is the same, the ambiguous in some Measures as in some Rheumatic Cases of this Country, in which no putrescency could be expected, I have seen yet. Low Serum - This then is a mark perhaps of Phlogis- tic Diathesis as well as Putrefaction.

The most difficult Cases of Fevers with regard to U.S. is when a Fever has subsisted long & Debility & Signs of Topical Deformation at the same Time

The Measure of U.S. Practitioners have found difficult to establish - there many Mistakes on both Sides.

Many Fevers prove fatal for want of U.S. many because it has been too plentiful - I have given you Rules for determining it 1st The Constitution of the Patient. 2^d The Circumstances he lives in - his being an Inhabitant of a Cold Country &c. &c. might have added according to the latitudes - Thus intense Winters & Summers in northern Parts of America. Practitioners inform me that such do not bear U.S. so well as Europeans. Other Circumstances are Debility previous, Disease &c. We are influenced by the Cause whether with or without Miasmata & Contagion 4th as more recent. 5th according to Type, as more continued or intermittent especially we judge by the Symptoms. Tho this to young Practitioners may be very fallacious. Thus if a putrid Fever violent & hot at first - there be a single Bleeding, but a 2^d may be pernicious. But the Symptoms will not do unless former Circumstances be taken in. lastly The Effects of U.S. then instituted must guide us. A Difficulty occurs, & a

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in topical Determinations, when great Debility is also present often in these Fevers from Delirium, Suffusion of Countenance, Hædon, Diuturnum, Subculta, Tendinum have Insurrection of Inflammation of the Brain; wth bleeding here proper. Topical Inflammation always gave general phlogosis. In Diathesis, Bleeding would be indicated; but we know there may be topical Affection without occasion. Fever & therefore not giving Phlogistic Diathesis. In such of drawing Blood from a Distant Vein has no Effect. I have seen an Inflammatory Opacity of the Cornea, w^{ch} could not be cured by the most copious V.S. Topical. Inflammation then unless accompanied with Presence of Phlogistic Diathesis are not Indicators of Blood Letting. In Proof of this we know that topical Inflammation may subsist under great Debility of System. Thus the Inflammation in the Jail Fevers. A topical Inflammation may be hurtful in the Part, & may irritate the Sensorium, yet may not admit general Bleeding without great Hurt. Topical Bleeding, if convenient may be employed. - but difficult often to measure this. I have seen leeches applied to the Temples go to excess in the whole System. In Affections of the Brain, topical Bleeding on of External Part of the Head, it is probable have greater Effect than general Bleeding in Affections of it. I think so. But this Affection of the Brain may be to a considerable Degree not to be relieved by V.S. without injuring the System where then general or topical V.S. This is the most distressful

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Case in Fevers, tho as so we must take the ancients Remedium
& therefore employ, if possible, topical Bleeding.

The Quantity of Blood to be drawn is difficultly ascertained.

Physicians & by Patients & determining from the State of
the Pulse, the Quantity, but this is not accurate. In tying a

ligature we accumulate Blood in the limb. The Resistance

of the Ligature is equal to the Force of the Blood flowing from
a Vein, because it does not flow sensibly from a Vein opened

without a ligature. & therefore during the whole Operation of the
the Blood comes out equally. Accordingly I have found no al-

teration during Bleeding, when Deliquium ensued directly after
taking off the ligature. Indeed we may judge when Deliquium

comes on before the ligature is loosed. This however at one is a
rare Occurrence & the Pulse a very fallacious Test at that.

In great Tension of the arterial system we often have deter-

mined the Propriety of B. rather by the Relief perceived
by the Patient, than by an Alteration we could feel in the

Pulse. Other Circumstances may be taken in, tho nothing
very certain. In a vigorous & moderately robust Person,

the Quantity of Blood is a large Evacuation - after this great Caution.

In very robust Persons at great Phlogistic Diathesis, I will
not exclude this, tho this gives rise to great Debility & very

tedious Convalescence.

A second Evacuation is Purgatives.

To consider their Effects, we must consider that it cannot be
obtained without Stimulus applied to the Intestines. This

may be of such a Kind as to communicate Stimulus.

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And therefore certain Purgatives may hurt as much by Stimulus as the relief by Evacuation. Purgatives then for taking of Tension are not admissible, except Stimulus much confined to the Alimentary Canal. It is a known Observation that the Evacuants by Purging, has not equal Effects with that from V.S. The Reason is evident. The Tension of the Intestines much connected at the whole system, but the Connection of it at the sanguiferous System is not nearly so great as the Connection of Tension of the different Parts of that System. Thus loss of Blood from a Vein is as good perhaps as loss from Intestines.

All the Reasoning against Emetics in V.S. will apply to Evacuation of Purgatives. This may be the Reason why Practitioners have ^{and} Purgatives as Evacuants, in Fevers. Hence Emollient Clysters substituted. But besides the Evacuation by Purging takes off the Determination to the Skin, so useful in Fevers. Accordingly a spontaneous Diarrhoea or severe purging has been always reckoned hurtful in Fevers. & hence Effects of purgatives not answerable to what we might expect from Evacuation. Nor have they been much recommended. Sydenham condemns them in Pleuresies & Pneumonies. here we might suppose however they would derive from the Breast, as well as V.S. But the Consideration of taking off Determinations to the Skin must be taken in. The antiphlogistic Purgatives may be used, but from the Danger of Emetics from their deriving from the Surface not much employed.

Yet in some Fevers Purgatives are very good. Let us consider whether

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in such Cases they do not act differently from demonstrating the general Tension. - They are good in Fevers called bilious, that is, Fevers with considerable Determinations of Blood to the abdominal Viscera. This I said was peculiar to Fevers of the intermittent kind especially the autumnal, because the Bile seems under a particular Vibration at that Season. I suppose with Practitioners that Bile in these gives acid Matter & by stagnating gives Rise to the Absorption of it. & hence Purgatives useful. This Affair of Absorption is not established certainly; but besides, it appears that Fluids determined to the abdominal Viscera do not act always by the Quantity poured into the alimentary Canal; but by being accumulated in proper Vessels occasion Spasm. In Proof we find that the Liver &c are much enlarged. The opening the numerous Excretories of the alimentary Canal may be the very way to obviate these Effects.

This shows the Application of Purgatives in Intermitte[n]ts & Remittents. It is also the Foundation of Purgatives in putrid Fevers, where Ferment has often a Tendency to induce Intermitte[n]t. Hence so much Talk of Chrysals of Tartar in putrid & malignant intermitte[n]t Fevers, so frequent in warm & climatic especially when exposed to marshy Exhalations. These Fevers frequently attended Petechia, but then not always a Mark of Putrefaction. In nervous Fevers from human Effluvia, this is the Case when attended wth Petechia.

Dr of Mentz proposes curing all Petechial Fevers by purging. Many of his Proofs are very ambiguous, thus he used Oxydul Sulfureum. This is an Emetic as well as Purgative. his using oxydul Sulfureum leads

(a) This is a Quotation from Alexander's
Epays - the sentence is incomplete.

me to observe that Tartar Emetic has been used as purgative. I believe that it has good Effects when it purges; The many late Practitioners quite overlook its nauseating Effect, it is certainly very considerable. I shall endeavour to show that Vomiting as mere evacuations have not been so successful.

A third Head of Remedies remains under the general Title of Refrigerants. The particulars are acids & certain Neutrals. That both are sedative many considerations lead to - particularly their experienced Efficacy in Hemorrhages I can only be owing to sedative Power. Acids besides, quench Thirst & therefore its Stimulus. by taking of the Dyspepsia & Clammyness of the Mouth. by resisting Putrefaction at least in the Primæ Viæ if not in the Blood. by promoting Urine & profusely Perspiration they may be good. It is probable that vegetable Acids promote Sweat. That fresh Fruits are the best Evacuants for acrid Bile. In all putrid & Inflammatory Fevers, acids are undoubtedly proper. In nervous Fevers their sedative Action is not hurtful. Like that of neutrals it probably occasions a Reaction of the Sensorium that determines to the Surface.

Neutrals - What Powers they have as Sedatives is still uncertain. In Cases where Momentum of Blood is so violent as to threaten immediate Rupture, a Dose of Nitre might

This is a refinement that perhaps is scarcely admissible. Their Action in these Cases is perhaps the reaction which they occasion determining to the Surface. This sedative

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Power is confined to a few of the neutral Salts. Many are accompanied wth great Stimulus to every Part of the System. We shall speak of Neutrals as Diaphoretic. I shall only observe here that they may be antiseptic in the Prima Viæ tho not in the Blood. They are also Diuretic. In affections of the Lungs, I have seen the Cough aggravated by neutrals & Acids. An Instance in a late Writer on the Plague. He found Vinegar a useful Diaphoretic - but in weak People & the Physical he found it give Depression of Heart, Cough &c. The Preference in Acids is given in Favour of Uricolic. The Marine & nitrous have particularly the Effect of stimulating the Lungs, especially the former.

We proceed to the second general Indication, w^{ch} is to restore Vigor of the Sensorium. particularly the equable Distribution of the nervous Power to the System in general perhaps to the extreme Vessels every where. We shall possibly repeat some of the Remedies mentioned under former Heads, but the same Remedy may answer different Intentions. I could arrange the Particulars under certain general Heads, as they operate to the general End in View. Some particularly operate by restoring the Distribution of the nervous Power to extreme Vessels. Others in restoring the Determination to the Surface of the Body, as this is the most palpable Instance of Determination to extreme Vessels from the Number Heria, Delicents, Neutral Salts hydriacis & Emetics are the internal Remedies for this Purpose. Externally Blistering & Warm Bathing

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All these act partially by restoring more particularly the nervous Power to the extreme Vessels appearing especially in the Determination to the Surface.

The 2^d are such as especially restore the Tone of the arterial System. The Action of the Heart & Arteries I have said was necessary to execute the Action of the Sensorium. but often this fails for want of Action of the Heart & Arteries. It is to be restored by cold Bathing Tonics & other Stimulants called Cordials.

4th 3^d Head of restoring regular Action of the Sensorium in antispasmodics. We are to consider these in 2^d or 3^d mention Diluents - This is an Example of the same Remedy answering different Indications - They were a Part of an Aphrodisiac Regimen by evacuating Acrimony in the Prime Viæ, in 4th fluids of the Mass of Blood & diluting too, if you please so favourable to evacuating & clearing, as favouring Secretion & Excretion.

From their favouring Excretion by Urine, Perspiration & Sweat, they belong to this Head, as they carry on Circulation more fully to the extreme Vessels & thereby contribute to restore their Action or at least obviate their Constriction. If this can be done, by the Bulk of an inert Fluid, it may be done wth Safety & Advantage. Water then is justly acknowledged the Basis of Diluents. & all Stimulant Impregnations may be hurtful.

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It has been alledged that Pure Water is less apt to
mixe with our Fluids than some Diluents of a more
acid Kind - that Water cures off soon by Excretion,
to doing so it answer the Purpose of opening Excre-
tions but is less fitted for taking off Acrimony or
moving Lentor. Physicians then have found that
impregnating Water with viscid Matter is usefull,
and have they employed impregnations of farinace-
ous Seeds, as less apt to pass off & most apt to in-
crease Acrimony.

Critical Salts - As antiseptics & antiphlogistic
atives I have said they may be used; I have said that
little Dependance is to be had from their refrige-
rating Power, as they cannot be thrown in in suf-
ficient Quantity. And tho they should, yet of little
efficacy, as the refrigerating Power seems immedi-
ately to excite a Reaction of the Whole, at least of
Part of the sanguiferous System.

They seem thus to have much Power in restoring
Action to the Extreme Vessels & therefore of curing
Fever, as depending on this. That they operate thus,
appears from the Heat on the Surface attending their
Exhibition from the Sweat that often follows & espe-
cially their operating Effects of Cold Fit in Intermitting Fevers.

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That they act thus appears from the analogous Operation of Cold Water. We might enter into curious Disquisitions of the cathectic Vessels being as it were, the Instruments of Tension, of their Connection with the Sensorium, of this with the Stomach & thereby the Stomach with the cathectic Vessels. This would give Illustration of our Theory of Fevers; but it is sufficient to know that Neutrals obviate Spasms of cathectic Vessels & thereby I suppose Spasms are overcome by restoring Action to some Part of the sanguiferous System. This is performed probably by neutral Salts.

Three Questions occur here.

1. To what Limits these may be carried.
2. Where properly to be applied.
3. What neutral Salts are proper. As to the first we know that they are not always efficacious.

The greatest Advocates for them acknowledge them only efficacious in Tertians & Quotidians.

It is necessary to know what is the Effect. If they do not cure, but contribute to it, why are not the Doses increased or more frequently repeated? I suspect they may thus do Harm. A Hot fit formed to a certain Degree only is necessary to remove a Fever. I have observed that by too violent hot Set, the Patient was dissolved in Sweat & the Fever as far from Solution as if no hot Set at all.

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I suspect that the constant Use of neutral Salts
would prevent that proper Degree of hot Fit w^h is ne-
cessary for solution of the Fever.

The Spanish Physicians according to Clegborn alledge
that from Experience it appears that inhibiting Drinks
too soon prolongs Paroxysm. I conjecture here that
any Heat whether Cold as refrigerant or hot as imme-
diately relaxing the Surface will tend to this.

I imagine I have found the Reason of the Abuse
of neutral Salts here.

This leads to our 2^d Question of the Propriety of applying
when the cold fit is come on & 2^dly when not.

A 3^d Case when a Spasm in the Stomach, w^h may be
properly taken off by neutral Salts. This appears in
intermittents in w^h I prefer their chief Use to the Time
of Exacerbation. In the ordinary Exhibition of saline
Mixtures, it is a Placebo. If we would have Effects larger
Doses must be employed.

3^d Choice of Neutrals? A Question undetermined.

Few Practitioners have Diligence or Capacity for
inquiring into these important Points. Sal Ammoniac
& digestive salt have been reckoned most effectual - to
stop Vomiting in Fevers we have employed saline
draughts. What Difference in one or the other & which

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appropriated to Intermitents, continued not known.
The Sp. Mindereri as exhibited in general is favourable.
have seen it used in prodigious Quantities without
Effect - I only observe here that this is not ascertained
Sudorifics - Thus at present on an uncertain footing -
they were formerly considered as the chief Remedies &
Sydenham properly retrenched their Uses. But it is
not certain that Sydenham & his followers did not go
too far, taking Sudorifics for every means now or life
stimulant, w^h may promote sweat & Fevers in so termi-
nate in sweat. Neglecting that the Advocates for
sweating are now deprived of the support of morbid
Matter to be thus expelled. I think that upon this gene-
ral Fact of Termination in sweat, we might take
Arguments for Arts promoting it - Many specious
Reasons might be deduced.

Hence Sydenham few Advocates for sweating. Dr Morgan
in his mechanical Practice has however alledged
that most Fevers may be thus cured, but not con-
clusive. for 1st in Intermitents many sweats
without final Solution. 2^d final Solution in fevers
are not in proportion to the sweat. Critical sweats
often moderate, often Intermitents are aggravated
by profuse sweats & their Length continued. Intermitto

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so are often attended wth Sweats, that protract by Dissolven.
Sweats urged are apt to render Intermittents continued
much more pernicious. This has been said of Dr Morgan.
But on the other Hand, we have his Testimony of curing
all Fevers by sweating, & must certainly go
some Length notwithstanding his Prejudices. I have
known other Physicians that followed this practice
successful, - In the Age of Aesculapius had we time
to consider them many Facts occur. & some fevers ab-
solutely require Sweat. The Point then is not deter-
mined. I think that if a Fever can be perceived app-
roaching before Formation of Spasms sweating may pre-
vent this & by restoring Determination to & extreme
Vessels may abate the Fever. We have Proof of this
in the curing Intermittents by supporting Sweat
till the Time of Accession. By such Means does
Dr Morgan say he cured the most obstinate Quartana.
Instances in Practice of Continueds cured by the same
Means. It may be said here that the Fever would not
have come on but from the Circumstances indicating
it & the probability of the Practice we may suppose
it effectual.

Again Sweating may be admissible in a recent
Spasm. This appears from Experiments.

Sweating is a natural process of the body
 which serves to cool it down and to
 rid it of superfluous humors. It is
 a necessary consequence of the
 heat of the body, and of the
 action of the blood. It is
 a sign of health, and of
 the vigor of the system. It
 is a necessary part of the
 process of life, and of the
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 It is a natural process, and
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 is a necessary part of the
 process of life, and of the
 maintenance of the body.

Sweating will be found useful when from the Nature of Epidemics we know it to depend on a remarkably sedative Power. In Proof of this the universal Practice in the Plague has been sweating.

Many Disputes - but we neglect the Objections that arise from Malad Administration of Sweating, we shall find the most happy Cure of the Plague to have been by sweating. Deemerbroock was most free in this Practice of late Chis - & other late Practitioners have waited more for Nature, but seized the first Opportunity of promoting this Tendency. Other Proofs of sweating in the sweating sickness. Many Testimonies of the Usefulness as well as the Inefficacy of Sweating - To determine here we must observe that in cases when Sweating is most useful if this is pushed by Force, that is by Inflammation, Stimulus, Load of Bad Blood, or if with the sweating, Delirium, Difficulty of Breathing, or the Sweat partial, such at least obstruct, if not aggravate the Disease. Continuance of the Hot fit depends on Phlogistic Diathesis, whatever lengthens this has a Tendency to produce this Diathesis, & therefore give more Danger. Vehemence of the hot Fit besides may occasion

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topical Determinations of the greatest Danger in Fevers. The Urging of Sweats then requires great Caution. - My Rules here are that

1st When Phlogistic Diathesis or the Spasm necessary to this, urging Sweat is very hurtful. On the contrary when Spasm not formed

The Question of the applying of Sweat particularly relates to the yellow Fever of the west Indies. This appears to turn out fortunate only when in its Beginning has been checked. I am almost persuaded that the same thing is to be done as in the Plague. we must not vigorously but promote the Tendency when it appears. Many facts show the Danger of urging Sweat too far.

When Symptoms of the Hot fit are strong, our here a Tendency to sweating is not to be encouraged, as we may urge the Hot fit that the Sweat will be pernicious, and more moderate would have been salutary. Topical Determinations are too to be apprehended from urging Sweat, would here give 2 dogmatic Rules. Where Diathesis Phlogistic evidently prevails is the Spasm depending on this, or indeed being obstinate from any Cause, sweating perhaps is not to be pushed. M. Chenot speaking of the Cases for or against Sweating, says see the Author's writings -

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I would then forbid sweating under any very violent Spasm. Before Spasm is formed & especially when recent & 3^d when Miasm & Contagion of Sedative than Stimulant, sweat is allowable. In 1st Perhaps the Disorder may be prevented by sweating. In 2^d Before Spasm much formed it is more safe. but in 3^d when we know that the sedative Power will multiply by Fermentatⁿ: or induced Debility by Repetition of Phlogogons we would wish to employ sweating. The sweating in these Cases must be excited by the least Stimulant, as Tepid Applications, bulky warm fluids that act chiefly by Bulk. It is as necessary that Sweat be not very profuse, but moderately carried on. Celsus & others were everywhere to inculcate that a more full Respiration is best, & that the Relief is not as Degree of the Sweat. We may from our Directions find too why sweating is best after Blood-letting. Hence Sydenham promising V.S. to sweating in the Plague was well founded. It has been observed that a previous Bleeding not only reduces sweat safer but also purging. In the late Plague of Marseilles it was a universal Practice - Similimus ventured on V.S. but commonly gave a Vomitt to clean the Prime Visc. If this did not purge they opened the Belly: & then in the least Effort of Nature promoted sweat, on w^h the Cure was rooted. The previous Purging they found useful & this we may understand from the Consideration

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of the Vessels of the alimentary Canal, being taken off thereby the dangerous Accumulations in internal Parts abated - As to the Degree of sweating not established. - Different Opinions. Diemerbroek thought that he might for the ease of the Patient allow sweats to subside & renew them again. But Sydenham says, that those sweats are very Dangerous. The subsiding was attended wth appearance of spasm & the Renewal attended wth Aggravation of Symptoms. Sweats then, that the Patient may support them a sufficient Time, should be moderate. violent ones for a short Time have been often pernicious.

In Fever there is an Exacerbation in 24 Hours. I imagine that sweat ought always to be continued till we are sure the next succeeding Accession is passed over & hence must be intended beyond 24 Hours. The good Effects of sweating depends on its being equally determined to all Parts & down to the Extremities of the Toes. Dr Chalmers of Carolina trusts more to sweating but takes especial Care to determine it to act - If we wish not to apply general Stimulant suff. for this, yet by particular Stimulants to act to them this the End may be obtained without the Inconvenience. hence he puts Hot Drinks to feed. This Author has presented us with a Difficulty. He insists that sweating is useful in Inflammatory Diseases as Pneumony. If he is right our Reasoning is doubtful if not false.

The only Act by w^{ch} I can abate it, is that as these

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Pneumonias may take an Intermittent Type, I would suppose them not Idiopathic. Pneumonias but only accidental Determinations in pure Fevers - This however wants further Confirmation.

I might enter on the Remedies employed for sweating, but it is necessary as I have said no Stimulant Preparation. Opium has been pretty universally the Sudorific. The active Part of Methridate & Theriac perhaps is Opium. In the Plague of Marseilles simple Opium & Laudanum answered equally well. As many Objections have been against Sweating by Narcotics as by Stimulants, however we explain it, Opium is reckoned hurtful in Phlogistic Diathesis.

But as Opium sweats by taking off Constriction of the Extreme Vessels, this more than compensates for Stimulus therefore may not such Sweats be useful in Spasm?

My Practice does not determine this. Sweat may be rendered safer, if produced by such Remedies as operate more by taking off Relaxation of extreme Vessels than by Stimulating Head & Arteries. Such are Neutrals & Emetics.

Neutrals are not yet Determin'd, never have been employed in the Plague: but Practice now shows that they are Sudorifics of the least Stimulus & best fitted for avoiding the Dangers of exciting Sweat in great Hemiplegia as mentioned by Celsus - Let us then consider whether the Objections against Sweating that have arisen from

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using Stimulants, may not be remedied by using neutral Salts.

Emetics. The present favourite Sudorific in Practice. De Haen is the only famous Practitioner who opposes their Use - We must consider them as producing
1st Complete Vomiting

2^d As inducing Nausea without Vomiting.

Vomiting generally useful by cleansing the Stomach, is frequently the Seat of Secretion in Fevers - Useful as the Operation emulges bilious pancreatic Ducts & Excretories of the alimentary Canal, particularly useful then for evacuating the Accumulations mentioned.

3^d More Considerable Action is the Determination to the Surface, w^{ch} they certainly do as well as from acting on Extreme Vessels as by the Exercise. That operate on these Vessels appears from Nature's bringing on hot Fit by vomiting: & also by their so frequently curing Intermitting. The Case in w^{ch} most useful when Inflammation on the Stomach or other topical Determinations in great Degree. Often not effectual from their Effect not being sufficiently durable. If the Action on the Stomach is necessary in curing Fevers to be supported some Time, vomiting is improper.

The Exacting too of Vomiting will occasion a proportion Depression, As appears from the Weakness felt afterwards; & especially from Practitioners observing that if whole Operation of vomiting is over before Accession of intermitting

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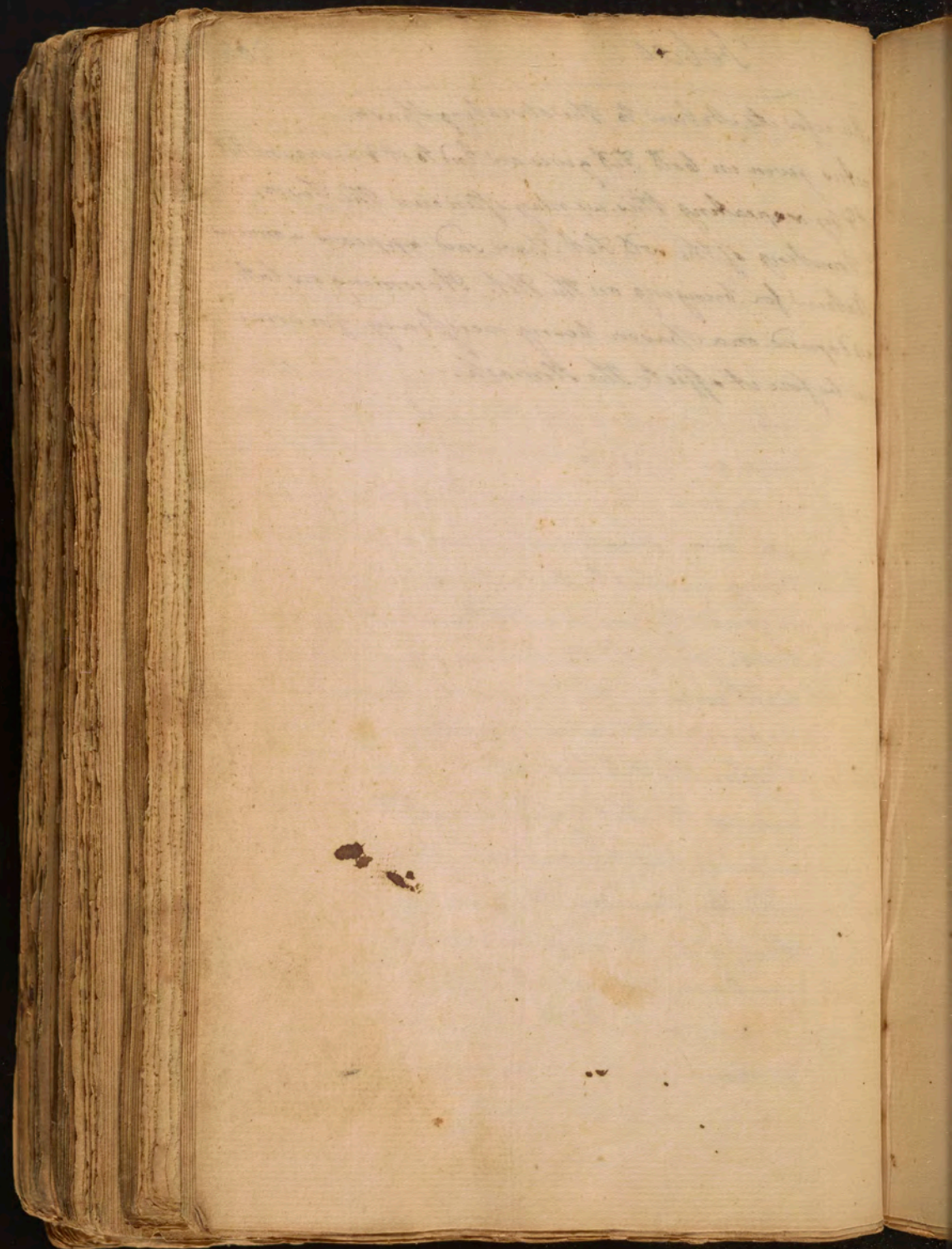
Paroxysm, this becomes more violent. - This I can only explain from their inducing Debility.

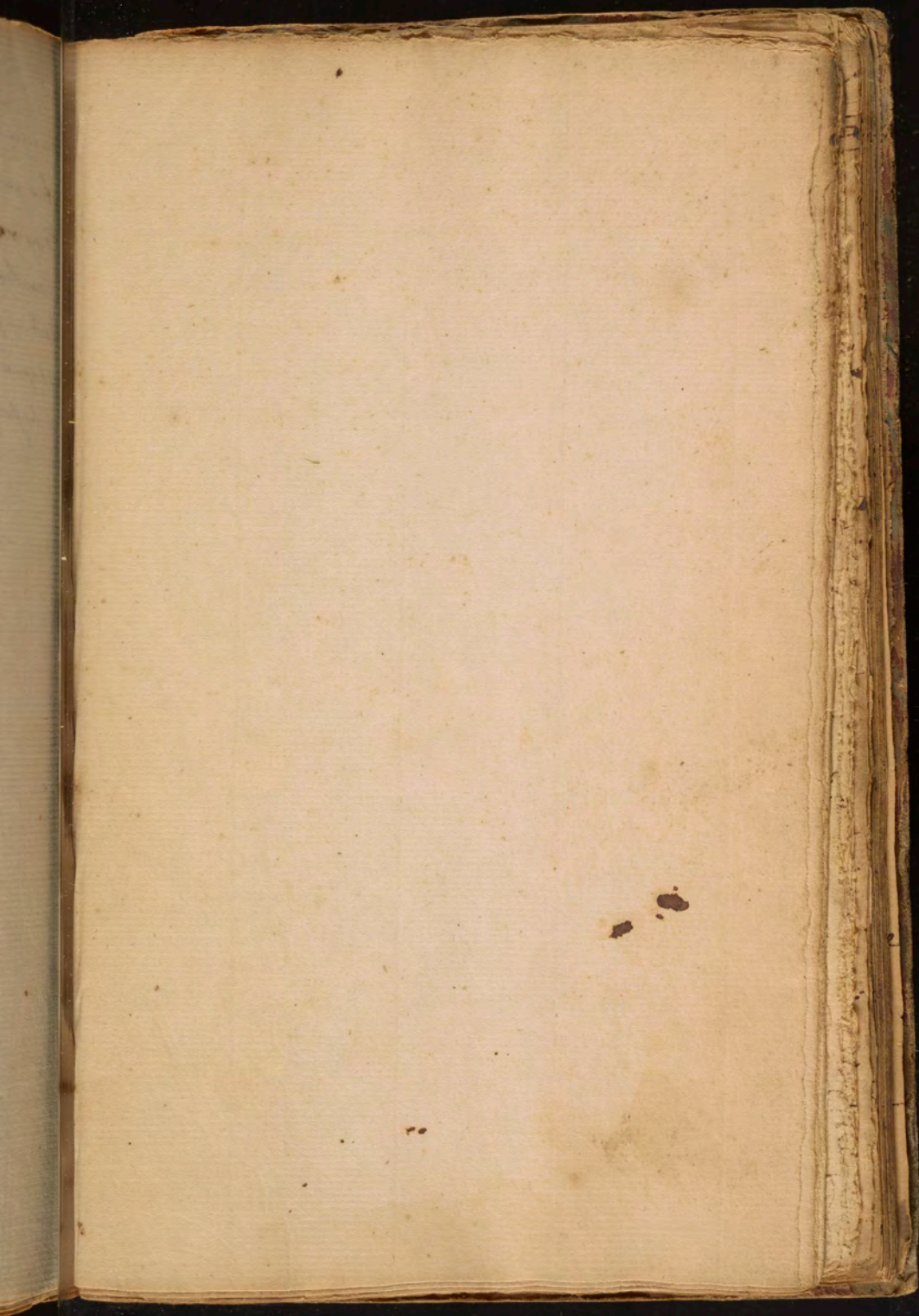
Besides Evacuations & general Agitation Emetics act on extreme Vessels by Action on the Stomach - The Proof is that when only giving Nausea they often give sweat, or without this relieves the Fever - This is to be explained I think from their restoring Action to extreme Vessels. The Action of Stomach not only produces Action in extreme Vessels of the Surface but also in extreme Vessels every where, & therefore a nauseating Dose of Emetic may operate Obstruction of the viscera without being applied to Intestines, but when for this Purpose we generally give in such Doses that they reach the Intestines. As to the Particular Administration we must first consider the Time of the Fever when most proper to be given. It has been found in that a nauseating Dose even before the Fit has with Sweating at least rendered the Fit less considerable & often cured. It has been found that the Approach of a continued Fever has prevented the Disorder. Dr Sydenham has given many Facts in Proof of it - He supposes it owing to the miasm & Contagion being particularly lodged in the Stomach & thereby thrown out. But without raising Doubts about this Seat of Reason or the Reasoning that would follow I say that Emetics are effectual when no vomiting has occurred or other Means of Expulsion & then we

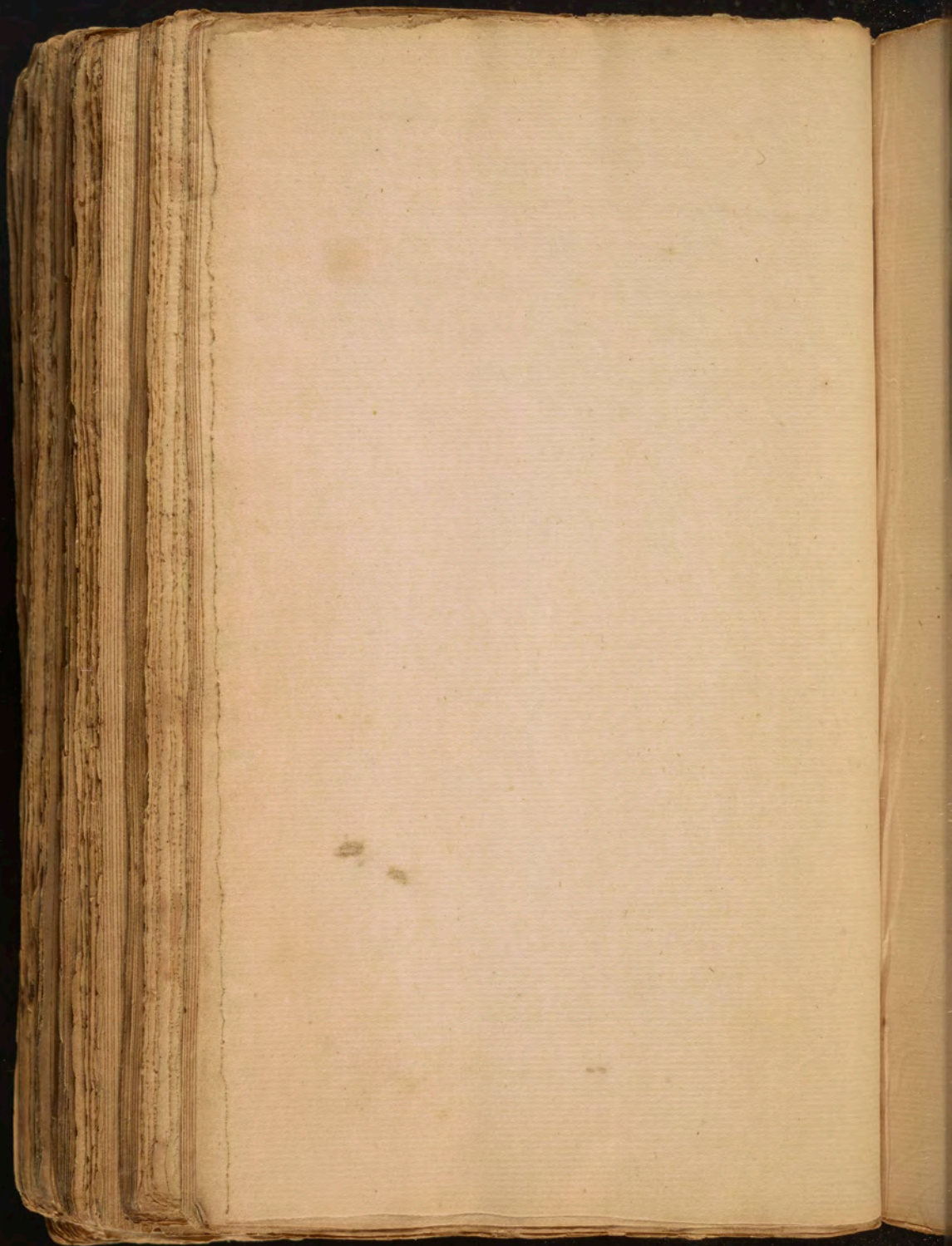
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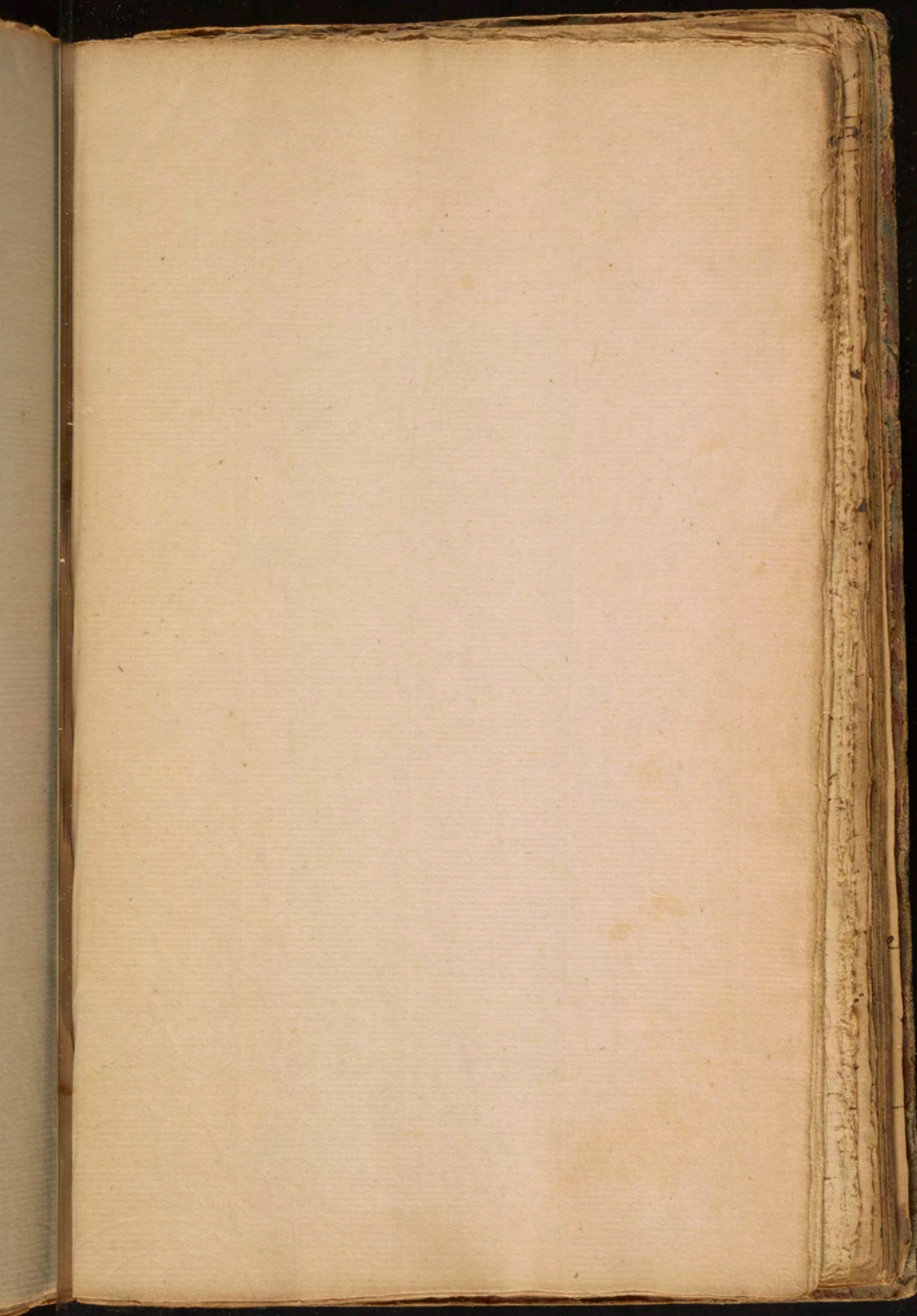
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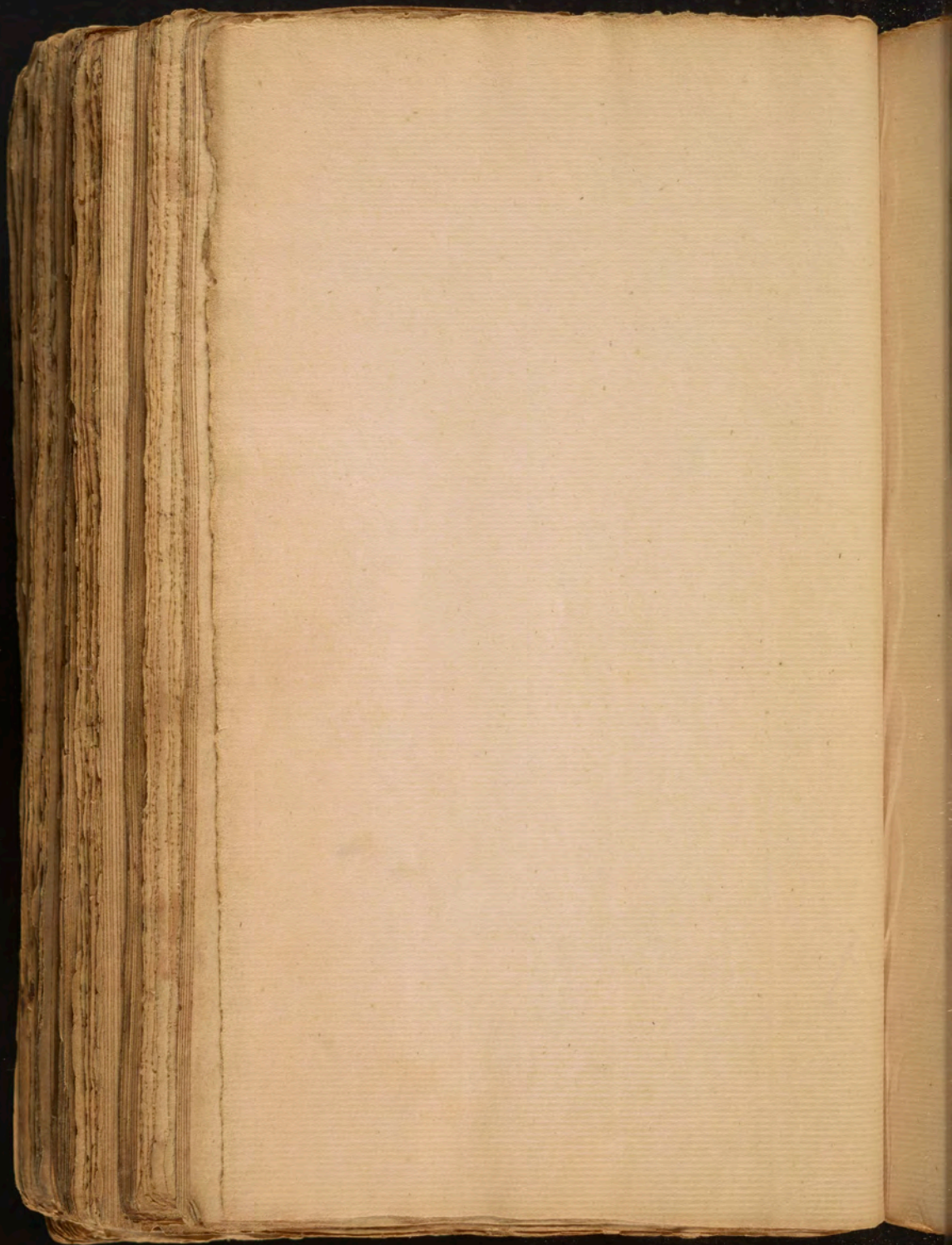
rather refer its Action to The obviating Spasm ~
Emetics given in cold Fit gives an End to it & brings on the
Fit & by repeating this, we may often cure the Fever.
The Vomiting of the cold Fit I have said appears a means
of Nature for bringing on the Hot. Its coming on late
may depend on a Spasm being necessary for some
Time before it affects the Stomach ~

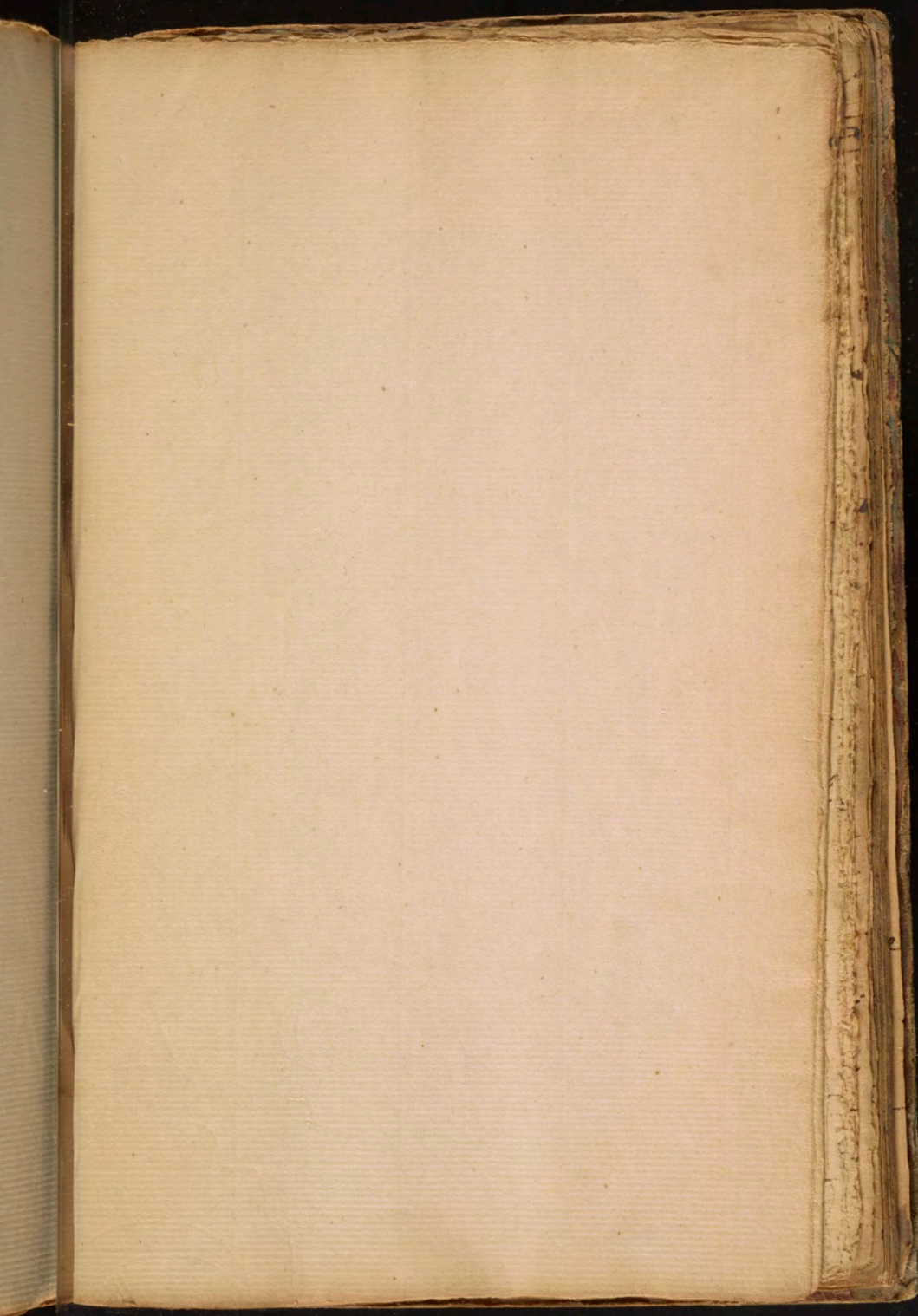


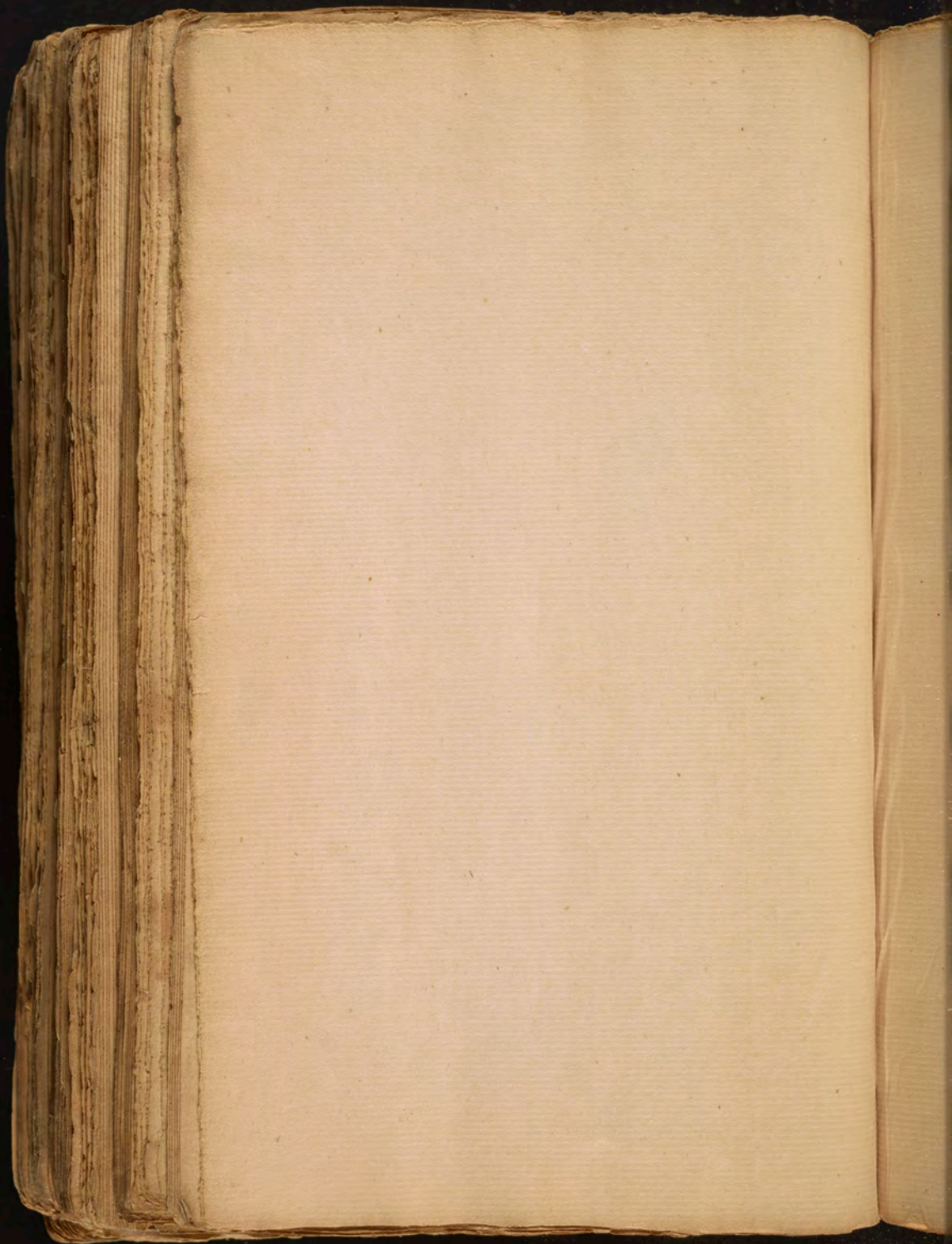


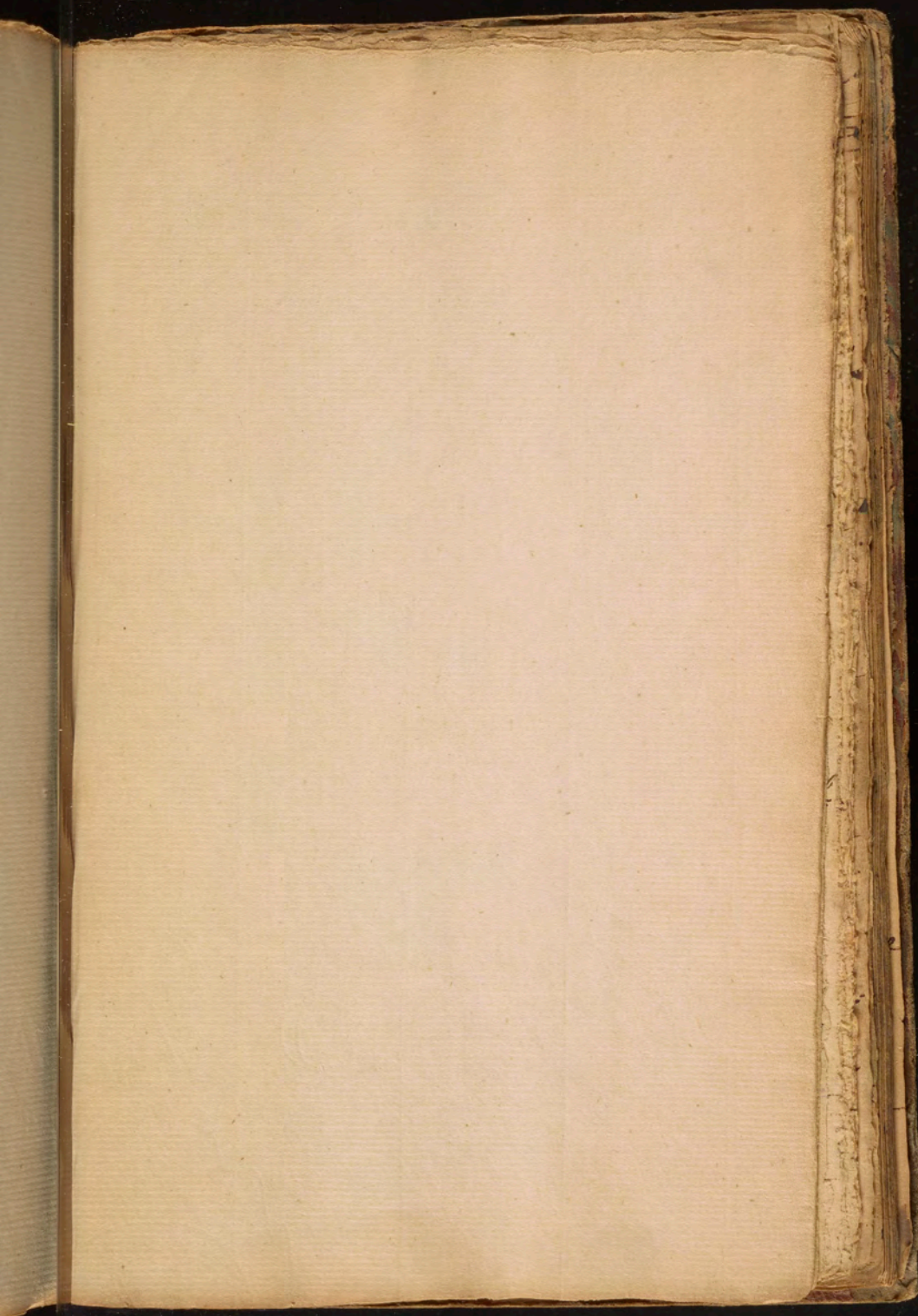


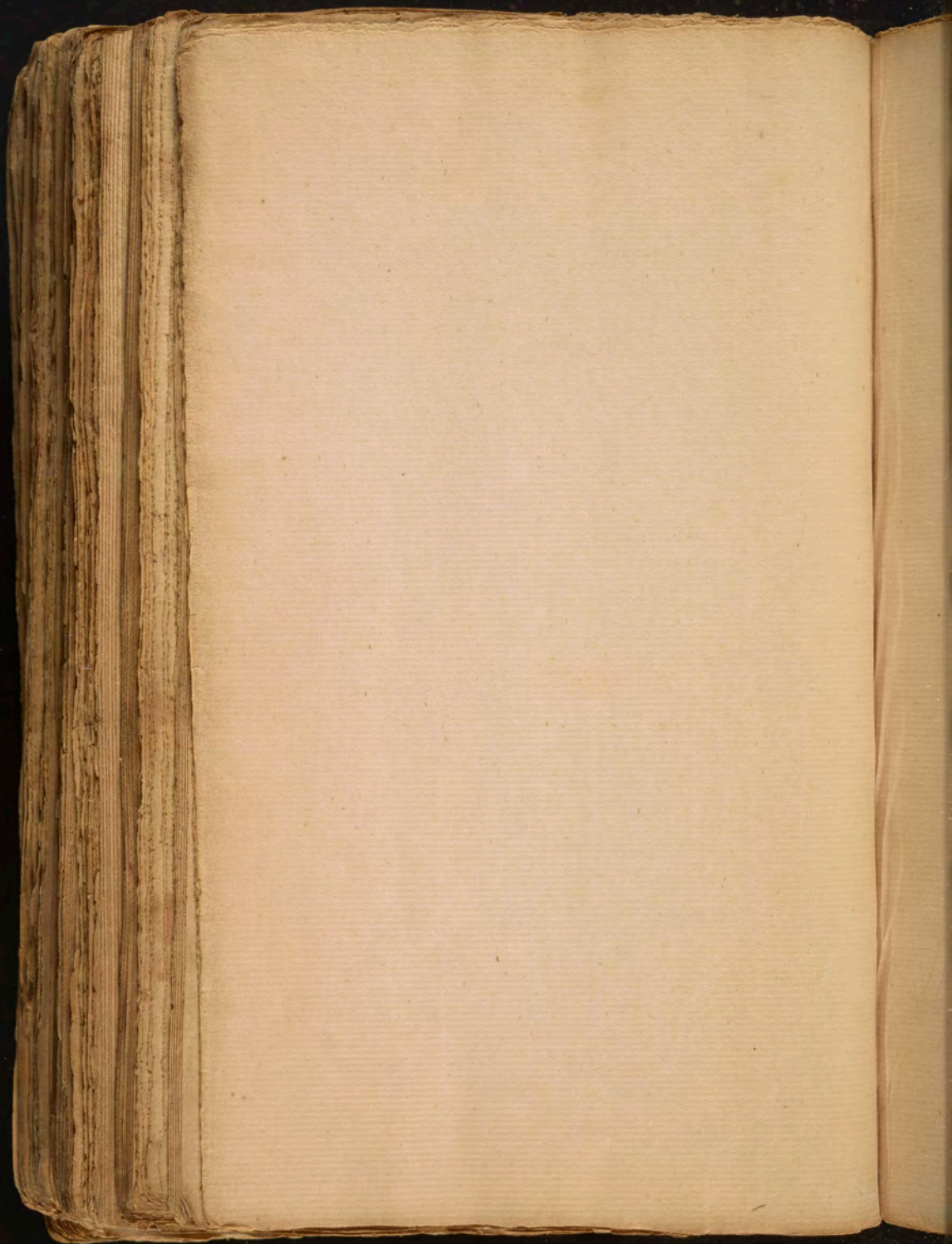


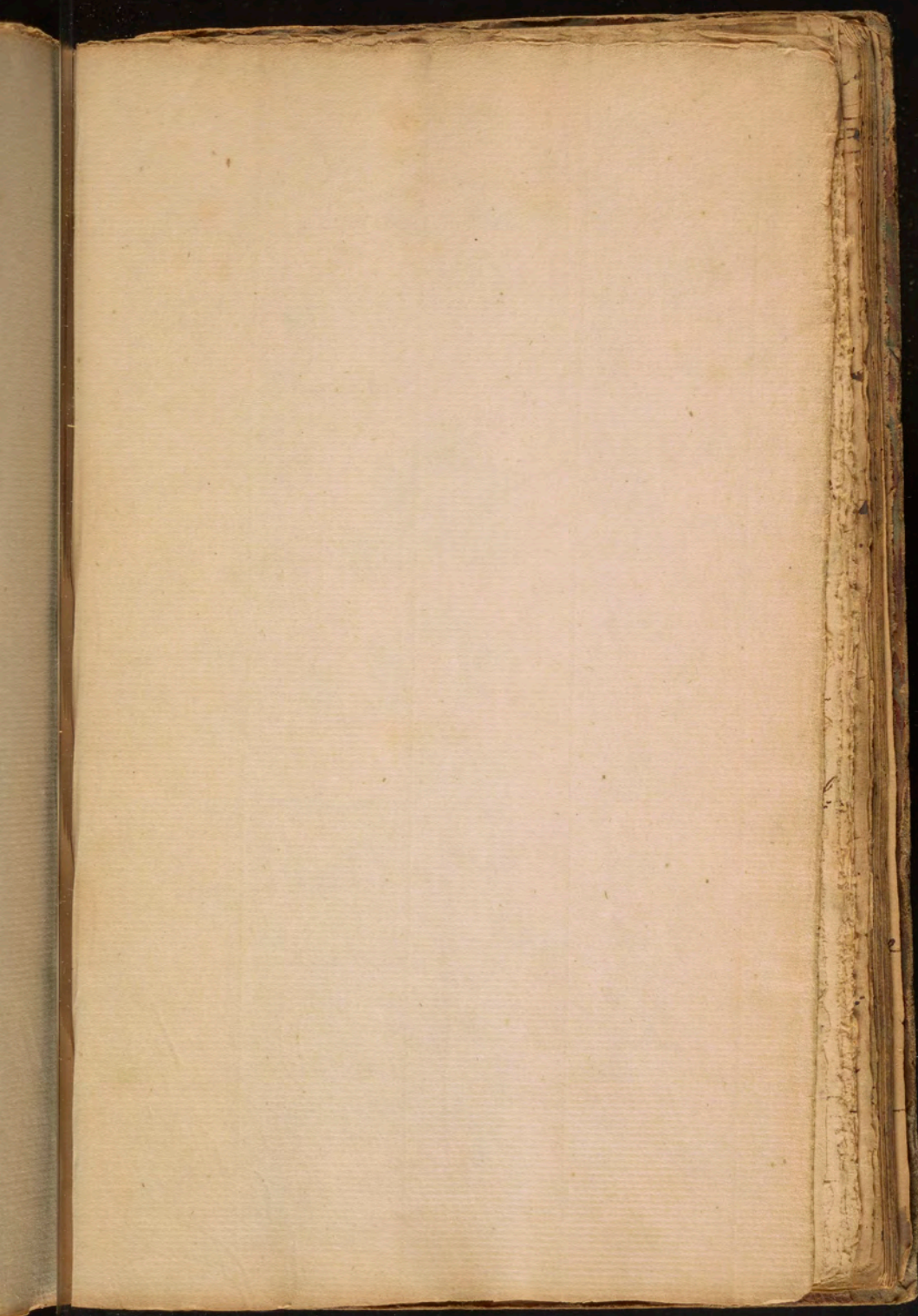


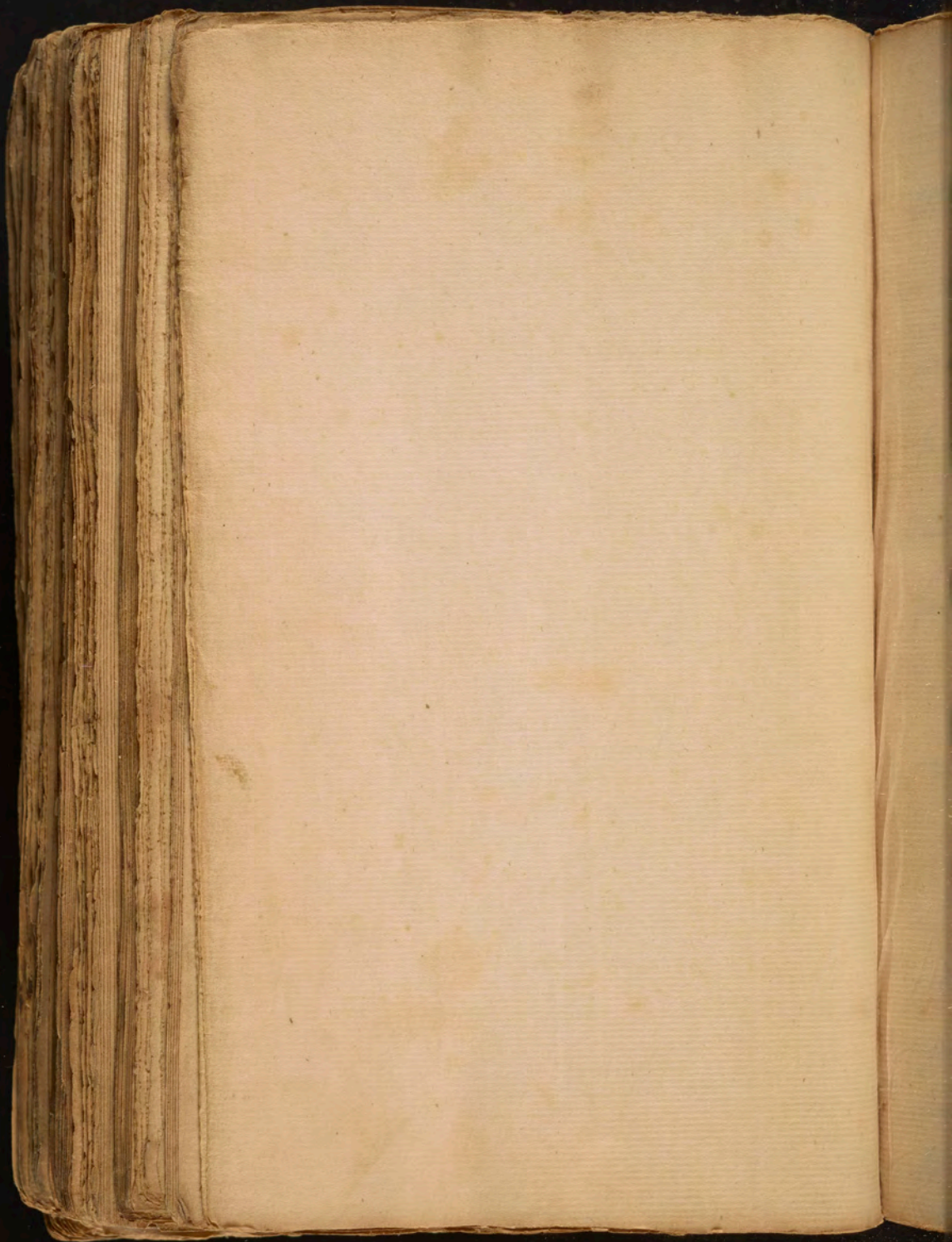


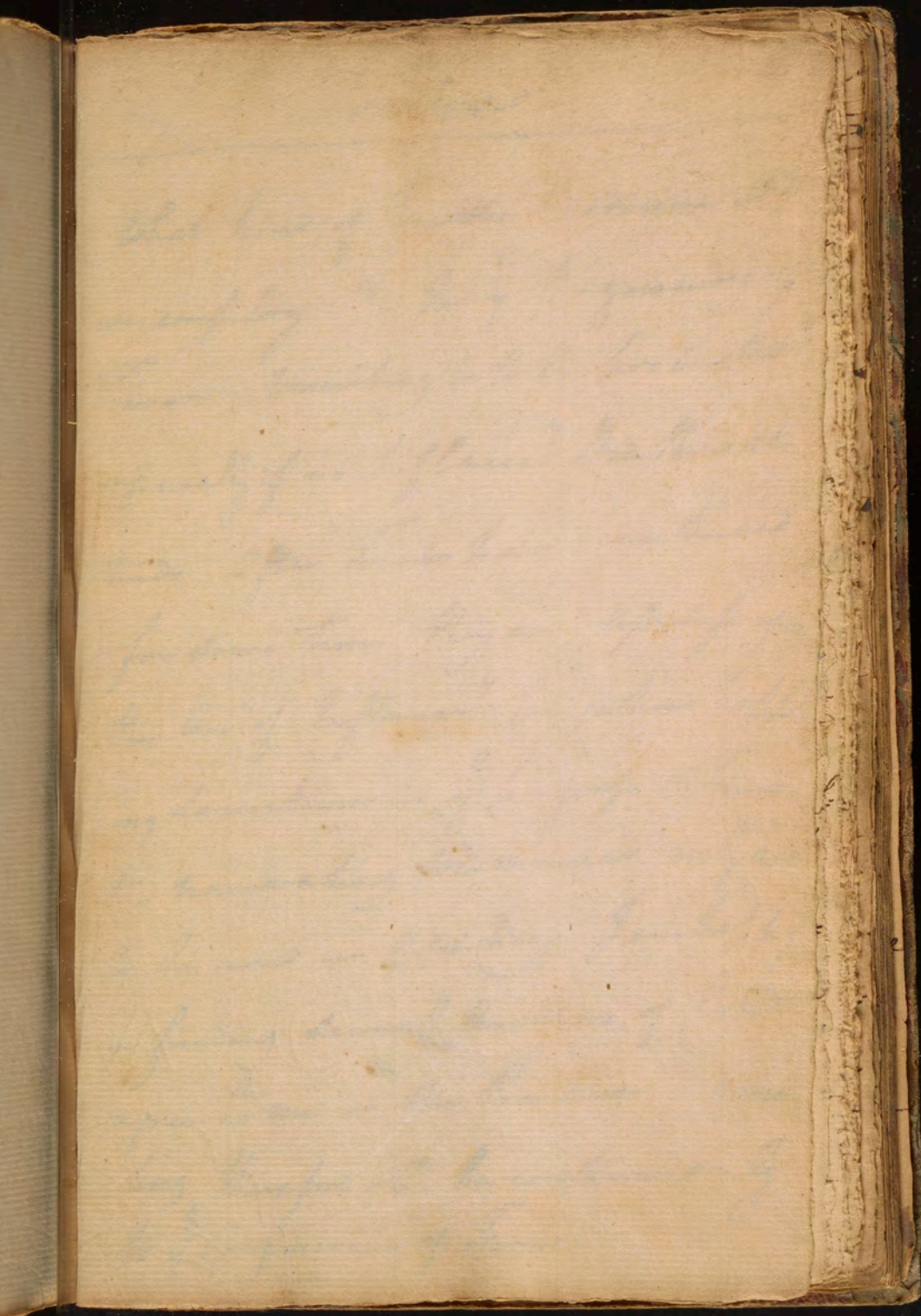












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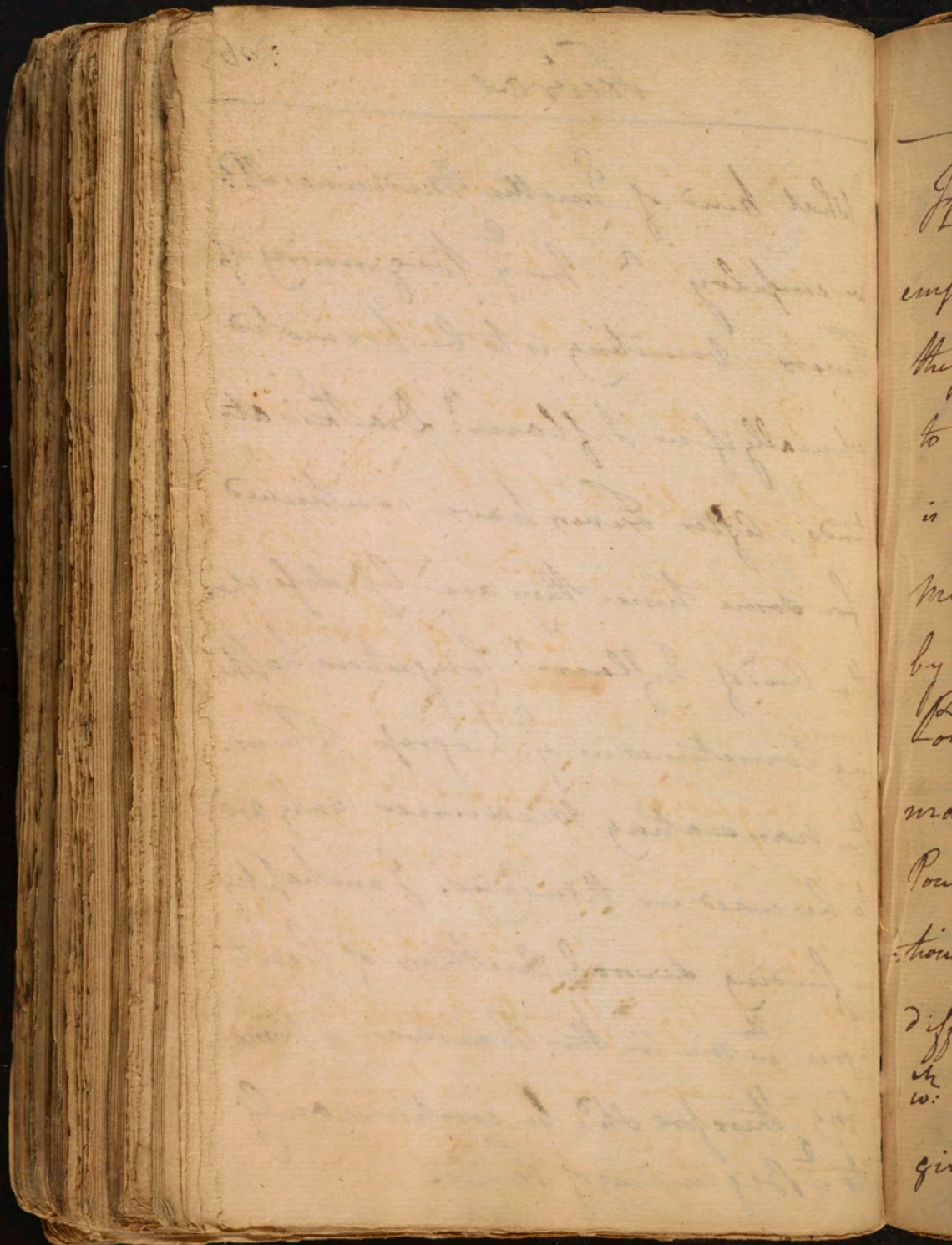
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What kind of Emmetic Medicines sh^d.
 we employ? In ^e the beginning of
 Fevers vomiting is to be promoted
 especially if no Inflammⁿ: Diarrhoea etc
 attends. After Fevers have continued
 for some time they are less safe upon
 the Au^t: of Inflammⁿ: Congestions happen
 sometimes in ^e the progress of Fevers.
 the nauseating Medicines only are
 to be used in these Cases. I am happy
 in finding several Authors of Credit
 agree wth me in this Practice. Vomiting
 therefore sh^d. be continued only
 to ^e the beginning of Fevers.



Specacua is $\frac{e}{y}$ medicine usually
 employs to excite vomiting. But
 the stimulus of this is often too weak
 to promote a sweat. the $\frac{e}{y}$ I methe
 is preferable to it. the use of this
 medicine was first suggested
 by the Introduction of James'
Powder. the $\frac{e}{y}$ I methe is a more
 manageable medicine than James'
 Powder, or any of the Other prepara-
 tions of Antimony. It has been given
 differently by different Practitioners
 the $\frac{e}{y}$ is $\frac{e}{y}$ Reason why it is sometimes
 given $\frac{e}{y}$ wout success. we sh^d. always

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give it just before the Exacerbations
of Fevers in such Doses as to ex-
cite a nausea without a vomiting.
if it sh^d: bring on a puking I always
suppress it by giving no warm water.
- the Effects of this Remedy are in
some measure Obviated by promoting
a vomiting. the more severe y^e
nausea the more successful y^e
medicine Operates. When y^e French
paper into y^e Gutts it always produ-
ces some Evacuation that proves of
use more especially sweating. By
this management I have often
procured a Termination of Fevers

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at Once but its most general
Effects are to bring on sleep - lower
the Pulse - & thus induce con-
siderable Remissions in the Fever. By
repeating the Medicine the Distemper
is likewise rendered shorter. The
Linctus may be given in all stages of
Fever before Mortal Lymph tones
come on, but it does service chief-
ly in the Beginning of Fevers & if
it does no good on the ² first two or three
days of Fevers we may lay it a-
side. Nauseating Medicines are
less serviceable in the Pitymaria

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than in those Fevers where there is
no Inflammatory Diathesis. However I
have found it useful in Inflamm.
Disorders. I would recommend
a Trial of them to you in such Cases.

We come now to treat of external
Medicines ^{or} are used to promote
the excited state of the Fens ^{or} ~~originally~~
— these are Blisters & Warm Bathing
~~and Water~~

1st Blisters - most of Practitioners
disagree about these Remedies.
I shall not discuss the various Op-
inions entertained concerning them.
They stimulate & excite a

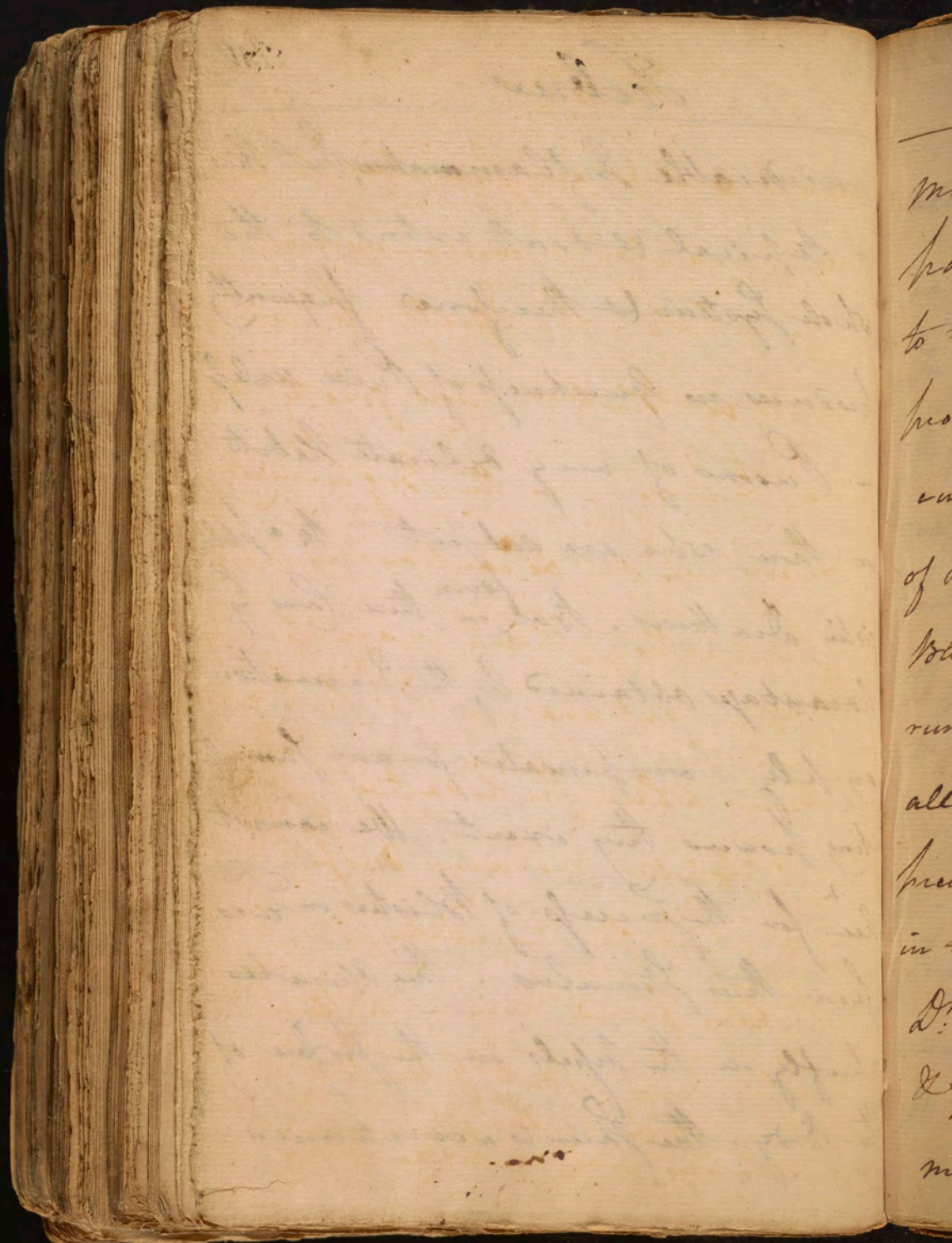
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Febris

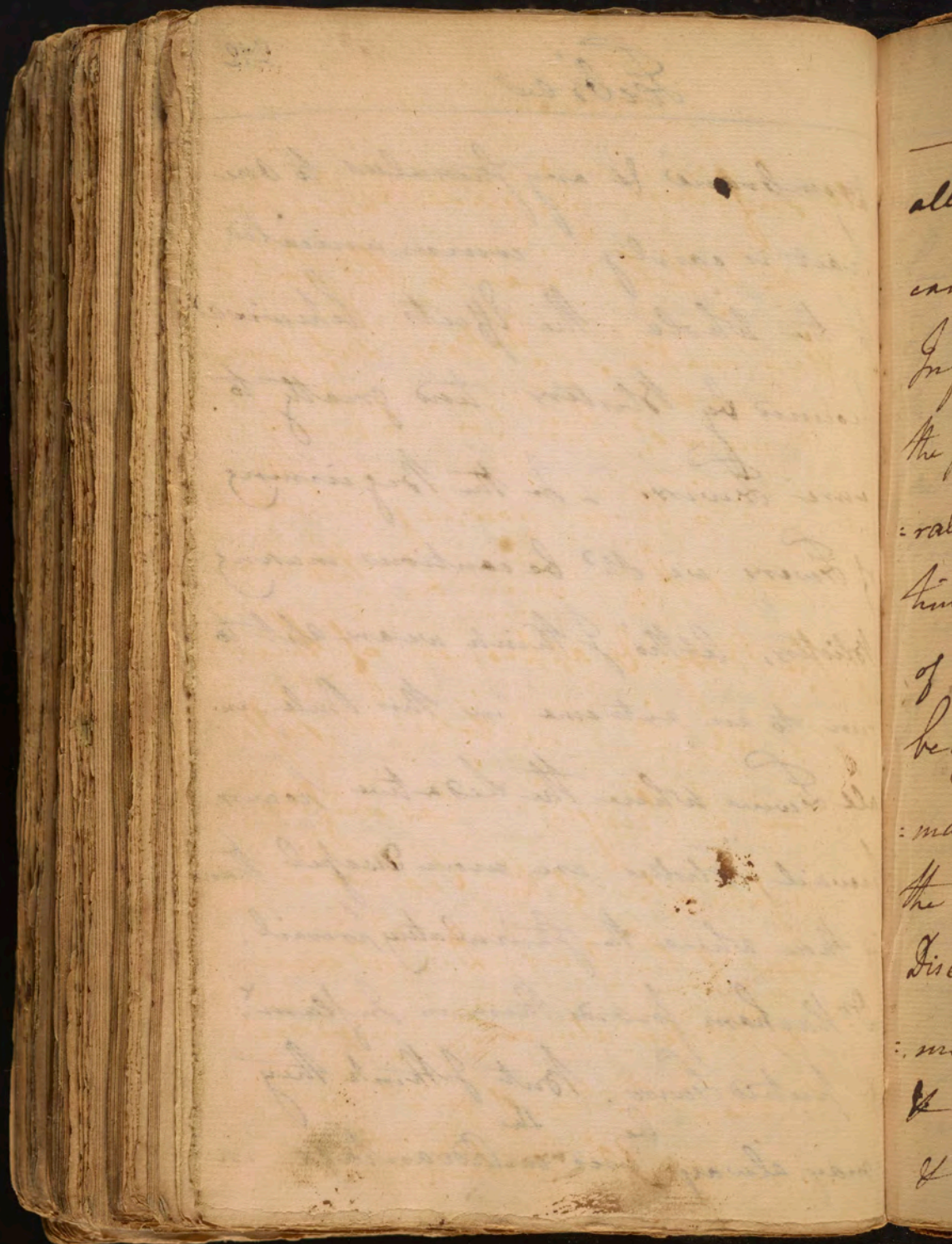
211

considerable Inflammation, but this
is topical & don't extend to the
whole System & therefore frequently
produces no quickness of Pulse unless
in Persons of very delicate Habits
or those who are subject to a phlo-
gistic Diathesis. But ^{even} in these Cases ^{the} $\frac{2}{7}$
advantage obtained by the Vaccination
amply compensates for any Stimula-
ting power they exert. We cannot
rely for the success of Bleisters in ^{lowers}
from their Stimulus. They operate
chiefly on the vessels on the surface of
the Body. The Pain is a continued



membrane & any stimulus to one part is easily communicated to the whole. the Effects likewise procured by Blisters tend greatly to cure Fevers. - In the Beginning of Fevers we sh^d. be cautious in using Blisters, Altho' I think we are apt to run to an extreme in this Rule. in all Fevers where the sedative power prevail, Blisters are more Disapful than in those where the stimulatory prevail.

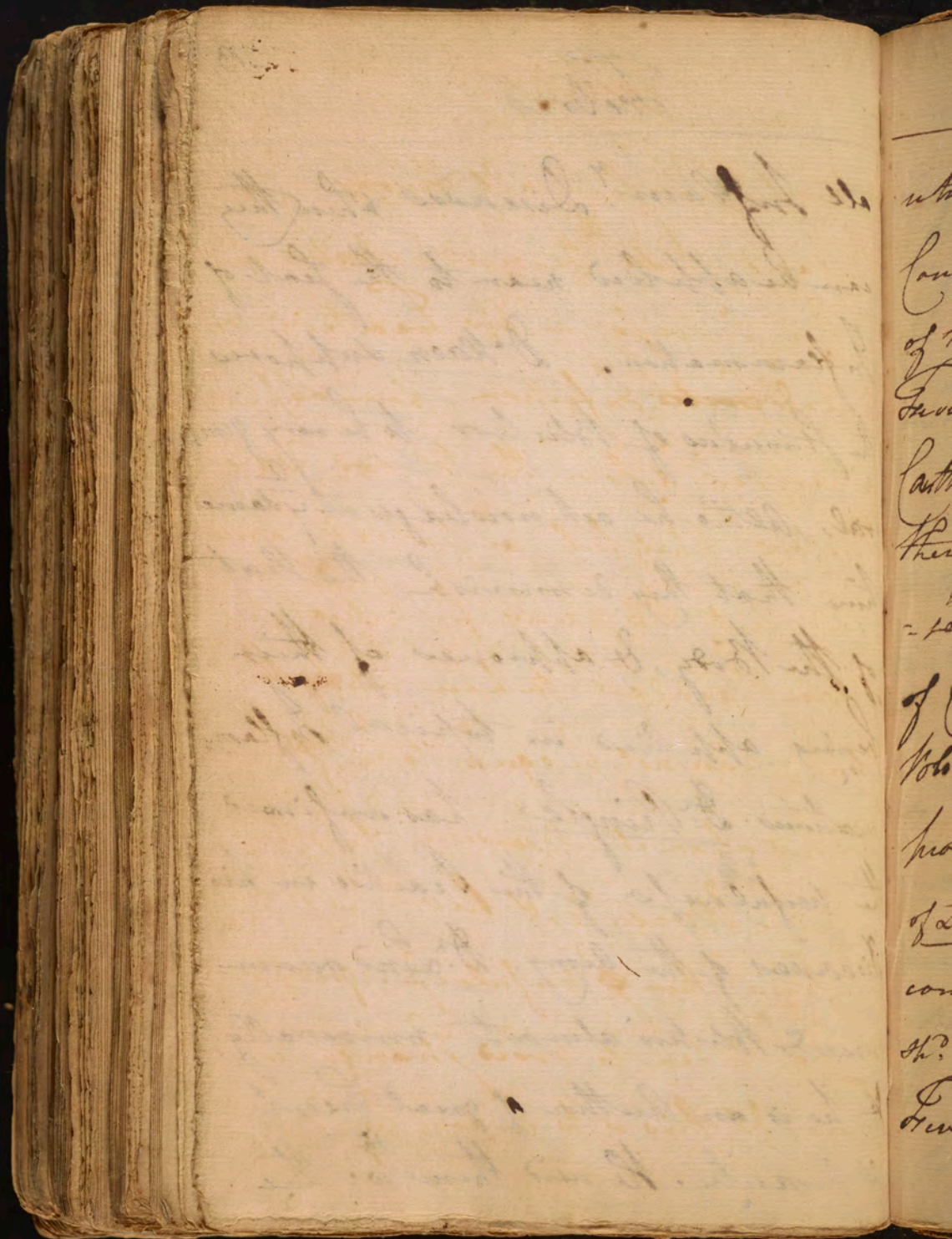
Dr. Huxham forbids them in Inflamⁿ. & putrid Fevers. But I think they may always ^{be} ~~used~~ ^{the} Advantage in



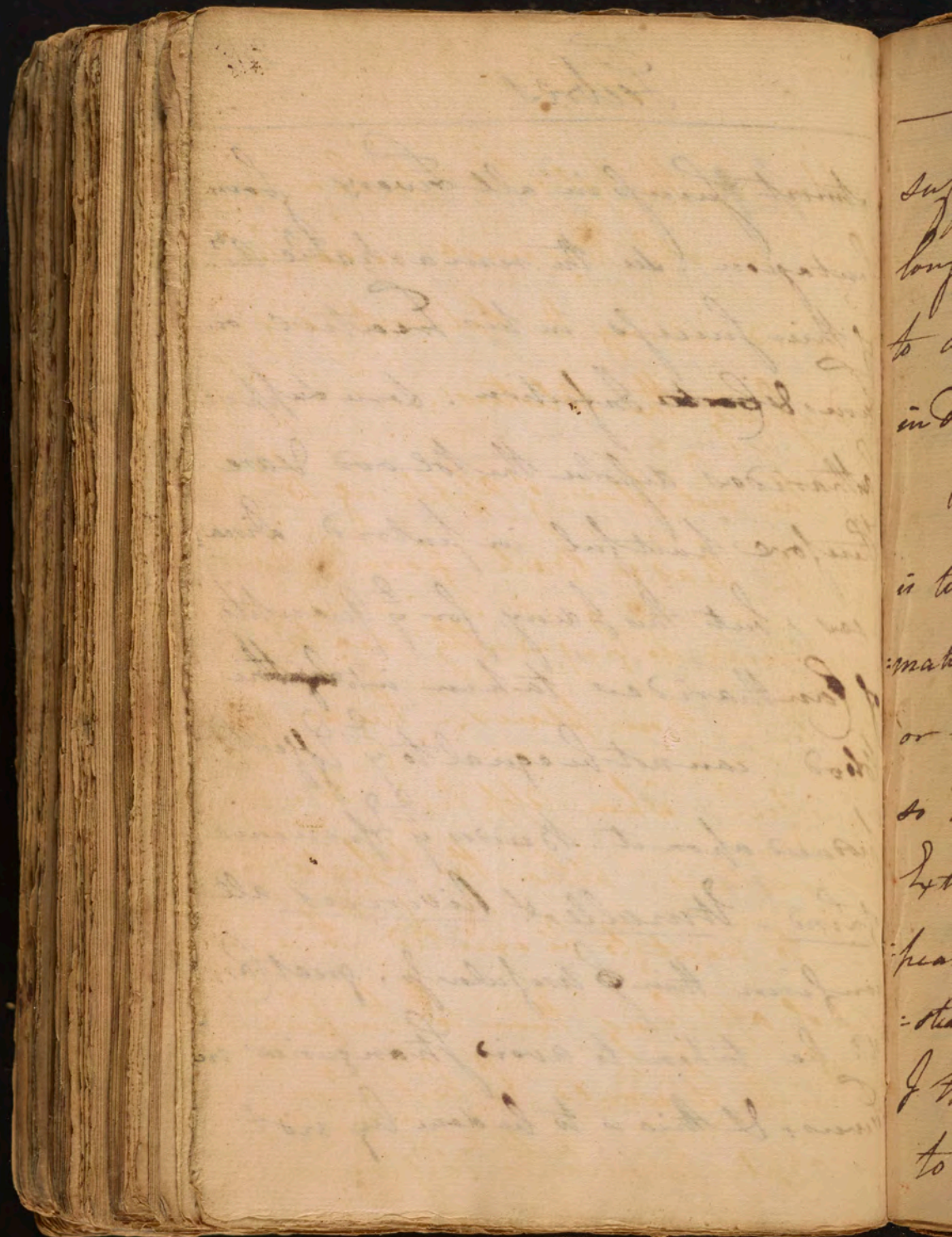
Febres

213

all Inflam^y Diseases when they
can be applied near to the seat of
Inflammation. D. Kaen supposes
the stimulus of blisters to be very gene-
ral, altho he acknowledges at the same
time that they diminish the heat
of the Body, & approves of their
being applied in topical Inflam-
mations. Dr. Pingle has confirmed
the usefulness of this Practice in his
Diseases of the Army. Dr. Lind recom-
mends blisters almost universally
& he is an Author of great credit
& veracity. He used them wth the



utmost success in all Fevers from
Contagion. See the remarkable Cur:
of this success in his Treatise on
Fever & ~~Contagion~~ Infection. Some suppose
Cantharides dissolve the blood & are
therefore hurtful in putrid Diarr:
-ses, but this I deny, for $\frac{1}{2}$ Quantity
of Cantharides taken into ~~the~~ the
Blood cannot be equal to $\frac{1}{2}$ Effects
produced upon it. Besides $\frac{1}{2}$ Experience
of Lind - Sturm & Riverius all
confirm their Usefulness. great Care
sh^d. be taken to avoid Stranguries in
Fever, & this is to be done by not



suffering the Blister to be on too long. we sh^d. likewise be careful to avoid giving the Patient any pain in dressing the Blisters.

The best place of applying Blisters is to the Head & Back, from Inflammation being so frequently seated more or less in those places. They are not so useful when applied to ^{the} lower Extremities altho' the vessels appear to want to be excited there. instead of applying them to the Ankle I think it would be best always to apply them to the Thighs. —

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This leads me to speak of
Synapisms ⁱⁿ w: are applied always
to the Feet. they may be used where
Volunters are forbid by Phangurics
or other circumstances. when we
want a sudden stimulus nothing
but Mustard = fed sh? he applied,
but this must not be continued above
an hour or two or it will excite the
most exquisite pain.

To restore the Determination to
the surface of the body. Another Rem-
edy of great use in warm. Febrile
- This was used greatly among the

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Febores

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ancients, but in modern times it appears to be laid aside. Dr. Gilchrist of this country has recalled the attention of Physicians to it. see the Medical Mag. & his treatise on sea voyages. The Practice of Grant is attended w. many Difficulties, upon this Cu^r: Fomentations of the lower Extre-
mities have been substituted in its room.

- This has Advantages above [&] warm bath. It excites a more universal stimulus. It disturbs the Patient less, & may be continued much longer even two or 3 hours. These Fomentations are

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highly useful in $\frac{2}{y}$ advanced state
of Fevers when the Phlogistic Diathesis
goes on, or when the Action of
Linsorium is resisted ^{as} we know
from the Delirium & Trispor which
Attends. the Heat of these Fomentations
takes off the Atonia & Spasms in the
small Arteries & thus often produ-
ces Sleep & Remissions of the Fever.
they sometimes bring on an entire
Resolution of the Fever. ~~when~~ when they
procure sleep they seldom fail of curing
Fever in a little time.

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But in order to excite the vigour
of the System the Action of the
Sanguiferous System must like
be excited when it is too low or too
weak. The Truss of the hot Febr we
said depends upon $\frac{2}{3}$ Presence of the
Phlogistic Diathesis; a want of a
due Degree of hot Febr is attended w. a
Loss of Force in the Arterial System.
This occurs chiefly in putrid Disor-
ders. The Medicines proper to excite
the Action of the Arteries are
Cold & tonic Remedies.

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Cold tends to excite the vessels. we see it bring on Inflammations. nay we know it to be the chief Cause of the Phlogistic Diathesis. It is therefore highly useful in Nervous and putrid Diseases. we apply it in two ways 1st by cold Drinks. or 2^d by cold Air or cold water applied to ^{the} Body.

Nature leads to cold Drinks by Instinct in all Fevers. warm Drinks ~~are~~ were introduced only by Reflection and Art. Authors ~~too~~ are divided in their Opinions concerning the use of cold

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Drinks. I shall not enter into their Disputes, but briefly point out ² Cases in w^{ch} they are hurtful & useful.

1st Cold Drinks are hurtful in all Cases of Inflammⁿ: Fevers, or such Fevers as occur in cold seasons or cold climates.

2nd Cold Drinks should be employed with Caution in the Beginning of all Fevers.

3rd They are highly useful in all Nervous & putrid Fevers especially in their advanced State.

4th In all Autumnal Fevers or the

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Fewers of warm seasons & warm C:
-mates they are useful.

3.rd The Ancients used them about the
time of the Exacerbation of Fevers. see
Somner upon this Practice. The Italians
have greedily imitated the Practice
of the Ancients in this Respect & even
use Ice to cool their water.

cold Applications to the body ~~is~~ is
likewise an ancient Practice, but
has been laid aside among the Moderns.
Sir John Puzos has many Instances in
his History of cold bathing of the

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happy Effects, if followed the accidental or voluntary plunging the body in cold water. But it is hard to reduce this Remedy to any Rules of Art. several German & French Authors speak highly of the Advantages of Immersing in cold water in Fevers, but I cannot pretend to speak confidently of it. I think however it may be ranked among the Remedies that are to be used to excite the Action of the extreme Vessels, and to promote the tonic power of the whole System. It has been found

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chiefly useful in the Petechial Fever.

we come now to speak of $\frac{2}{7}$ tonic
Medicines. These are very numerous
such as Astringents-fossil substances
vegetable matters more especially the Peru-
vian Bark. I shall confine myself only
to the Bark ^{is} $\frac{2}{7}$ most efficacious
of any vegetable or fossil Astringent
we are acquainted with. Some suppose
that it Operates Specifically, but I shall
endeavour to explain its Operation in
another way. Fever we know comes on
^{the} w. manifest signs of Debility & Atonia.
now the Bark acts by Obviating this

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Atonia. Other Astringent Substances
produce the same Effects. if it is given
while the Tone of the System is ^{proter.}
naturally encreased or during the Fever
it does mischief. It is hurtful likewise
in all Inflam^r. Fevers, ~~but~~ ^{but} does
service in those Fevers in w^{ch} the sedative
powers prevail such as $\frac{2}{y}$ putrid
petechial & fatal Fevers. See numerous
Examples of this in Dr. Haen's works.
It may used therefore in the advanced state
of almost all continual Fevers.

The Bark has been found highly useful

12

The first of these is the fact that the
 system of the world is not a system of
 the world, but a system of the world.
 The second is the fact that the system
 of the world is not a system of the world,
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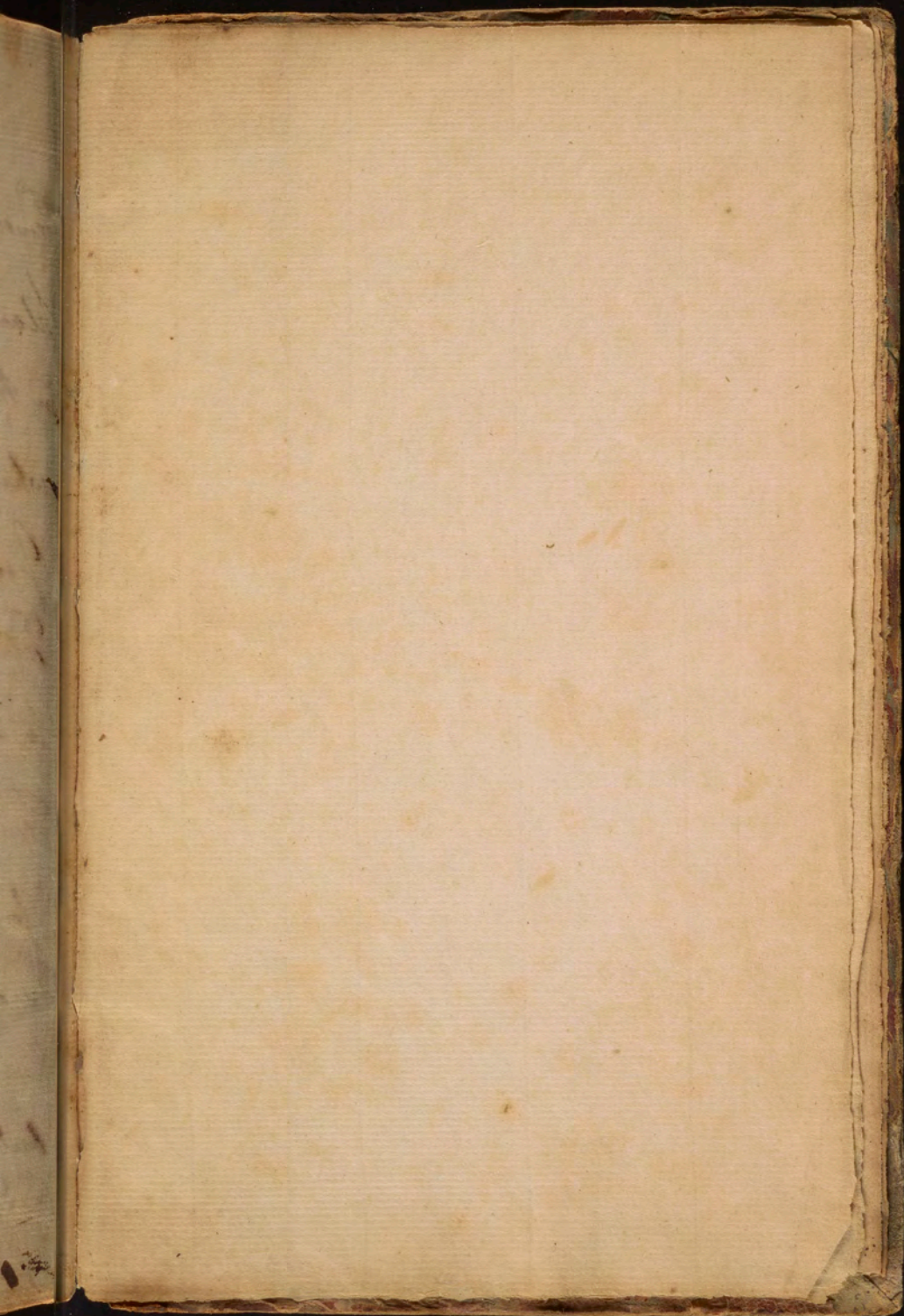
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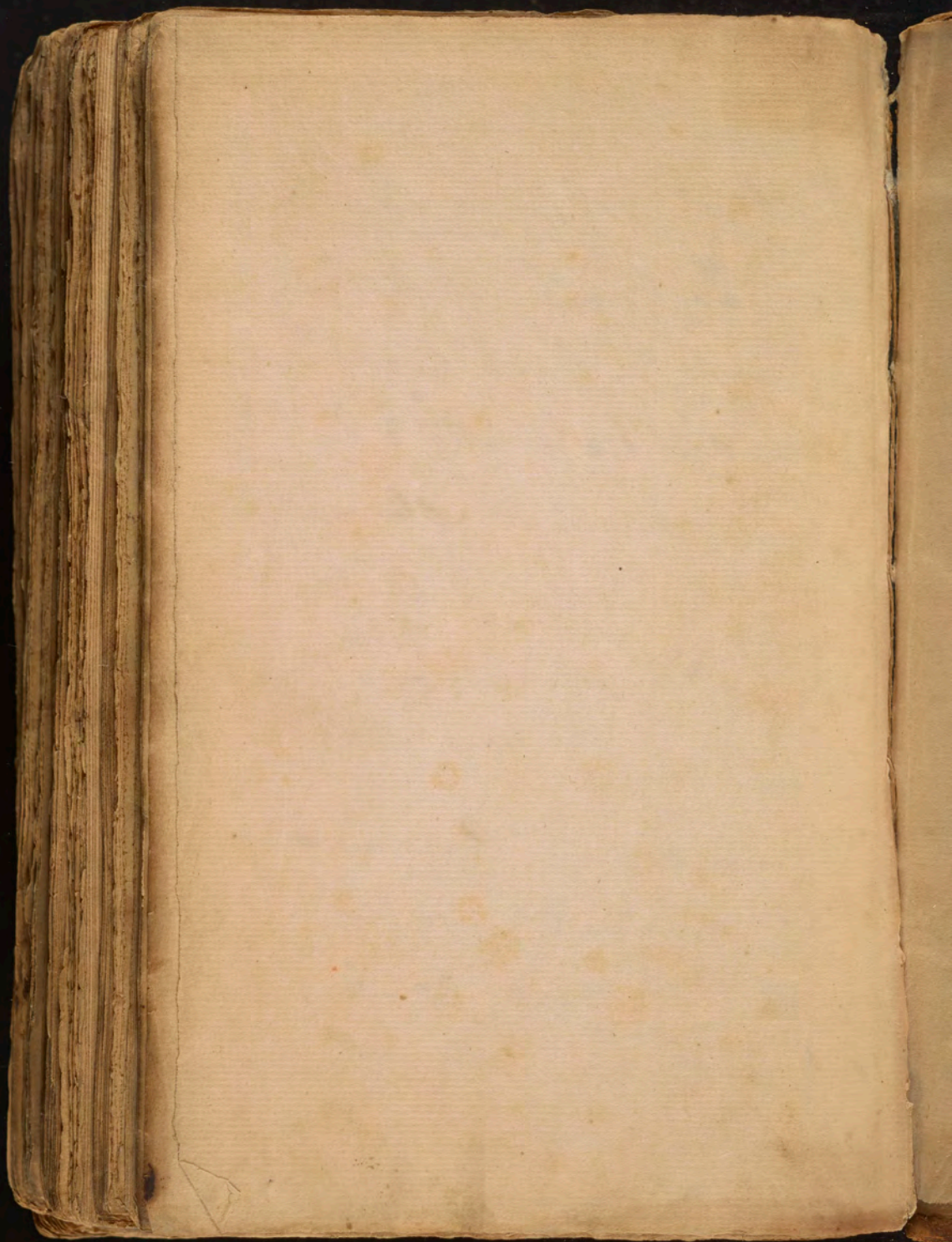
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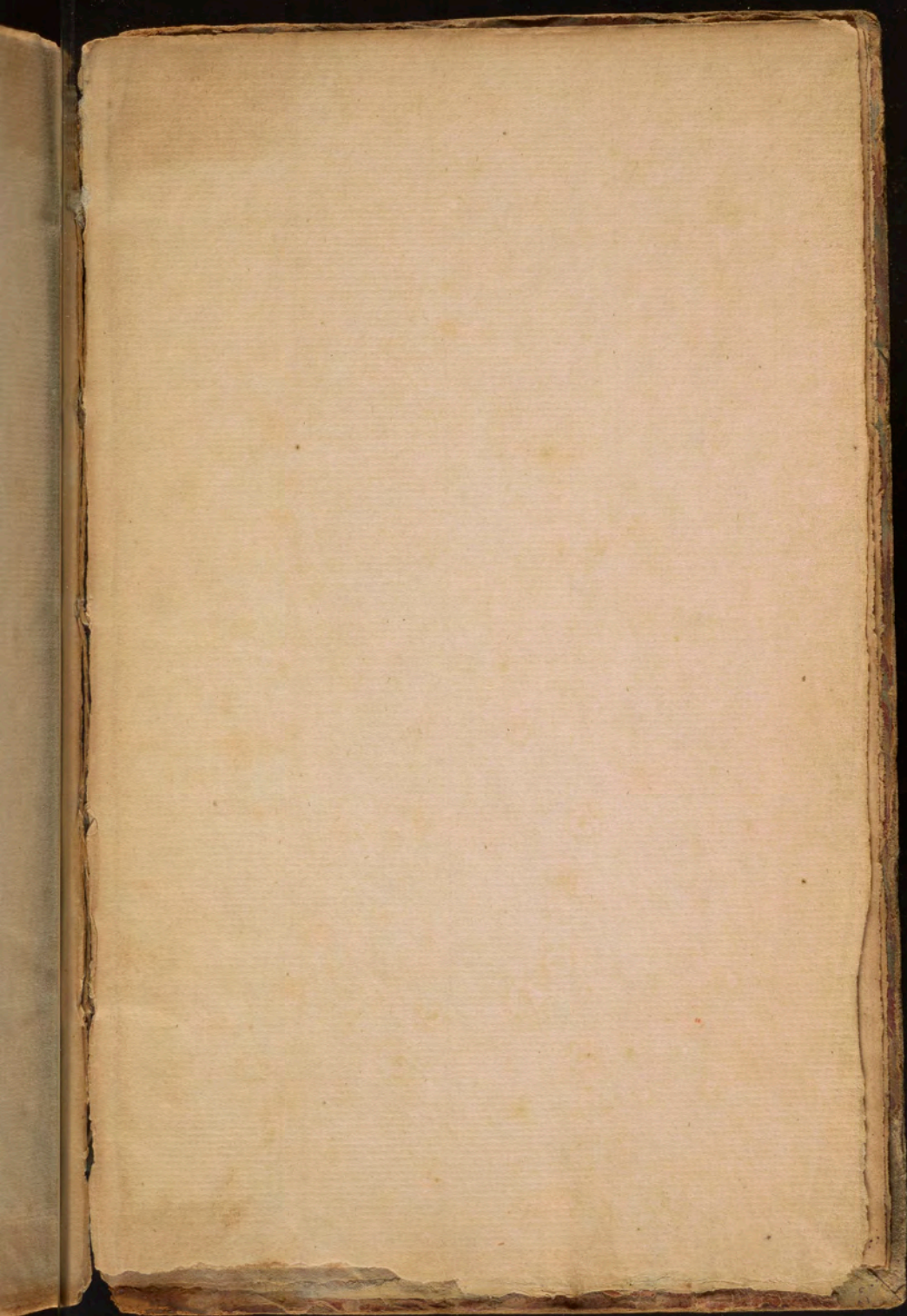
in Gangrenes. Putrefactions in^e
 Animal Body can never take place
 but in Cases of an Atonia of the
 nerves. now the Bark by obviating
 this Atonia removes the Gangrene
 or beginning Putrefaction. the Effu-
 sions w^h terminate in Pus are always
 attended wth more or less of an Atonia of
 the vessels. By giving Bark we check y^e
 Effusions of red Globules & Obtain an
 Effusion only of that part of y^e blood
 from w^h Pus is formed. The Bark there-
 fore may be exhibited in all those

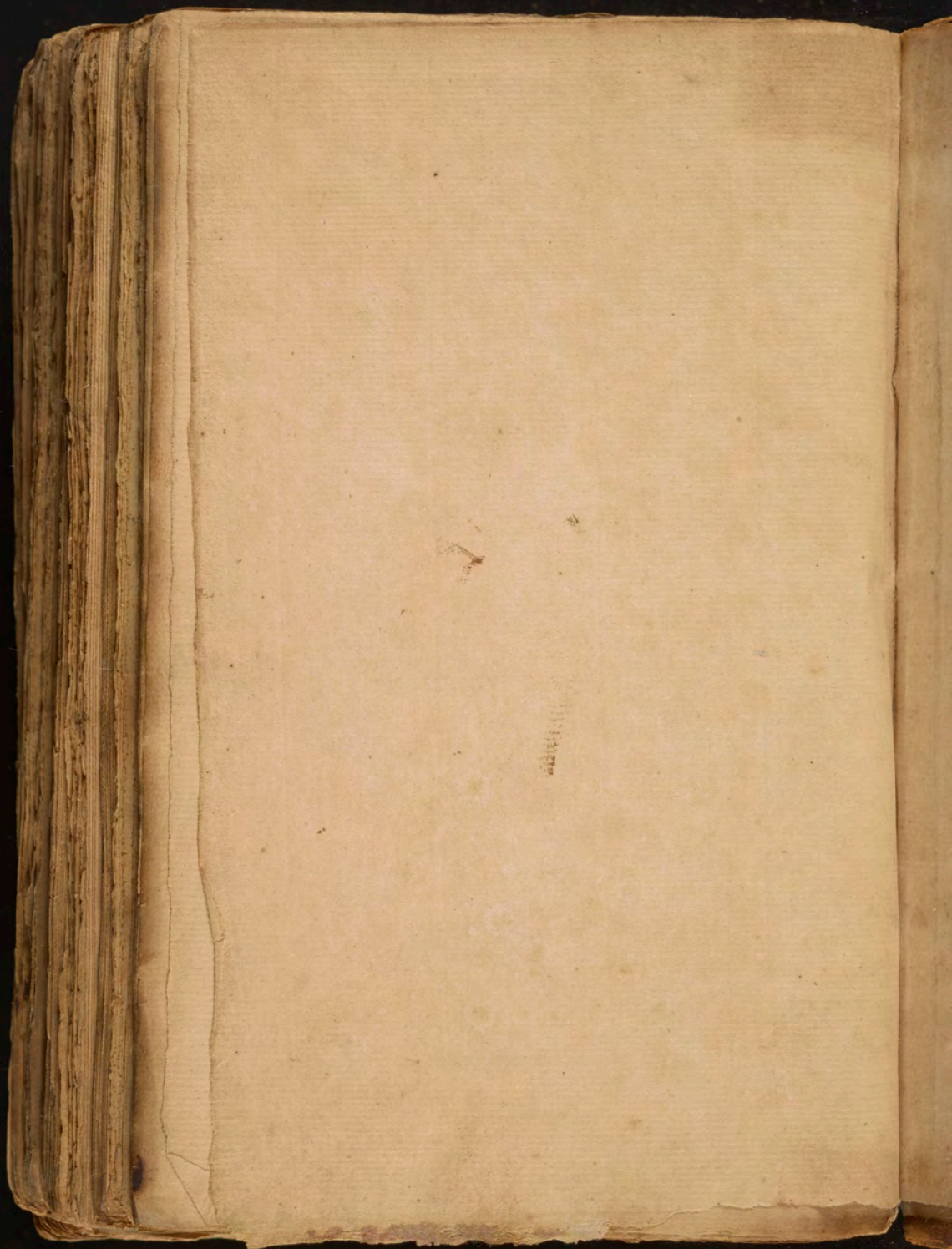
Fewers when a Septic Laxity takes
 place wthout any Regard to Remissions
 in them. The Wash proves Antiseptic
 when applied directly to the Body, but
 I can not suppose it is absorbed into ^cy.
 Solids. Its Action is confined only
 to the Solids. It often cures Interm.
 Fewers when given half an hour be-
 fore a Pitt comes On even ~~to~~ in so
 small a Quantity as ℥ss. I conclude
 then that the Wash's Action is confined
 only to the Stomach whose Connection
 wth every part of the Nervous System
 you are all acquainted with.

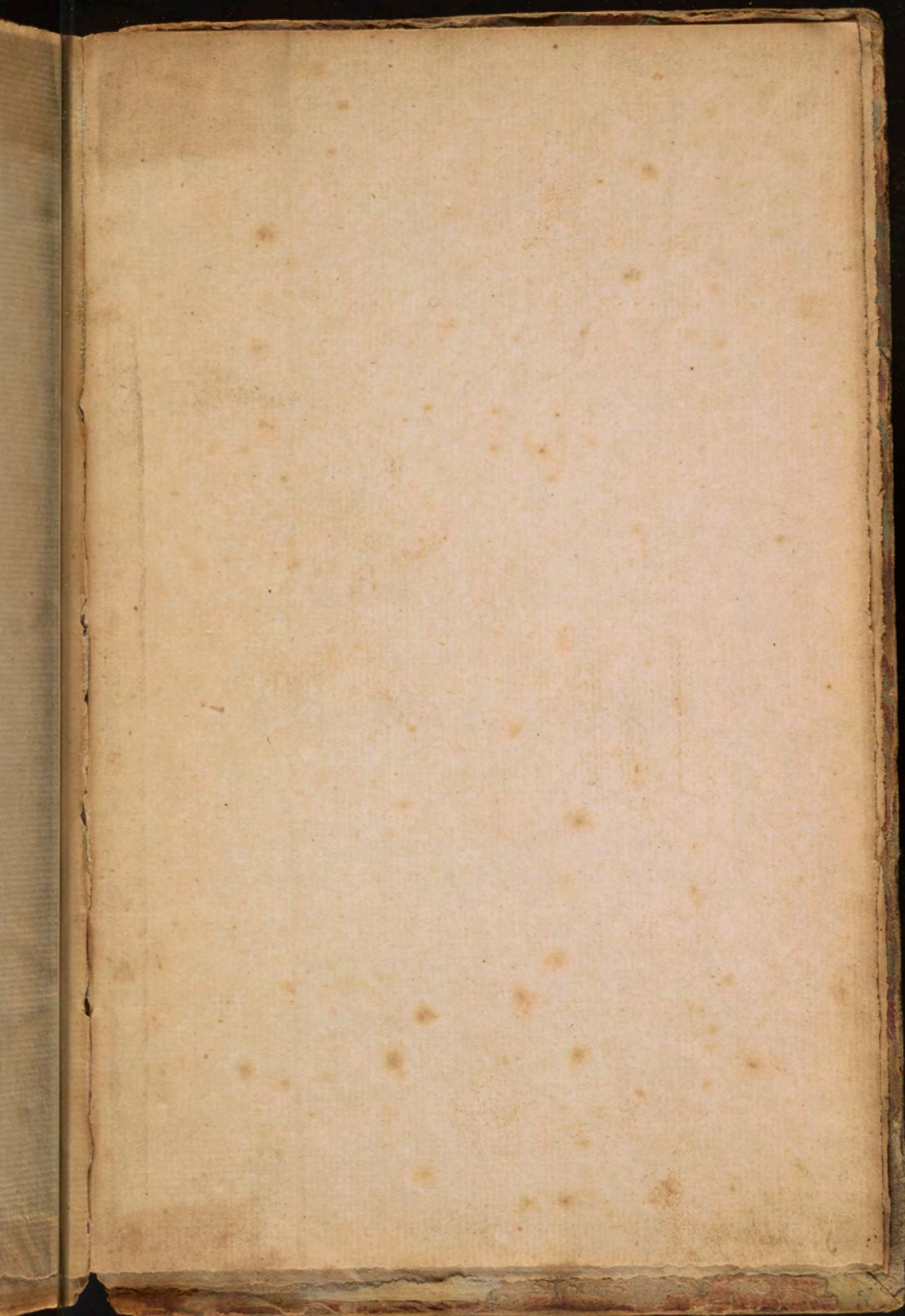
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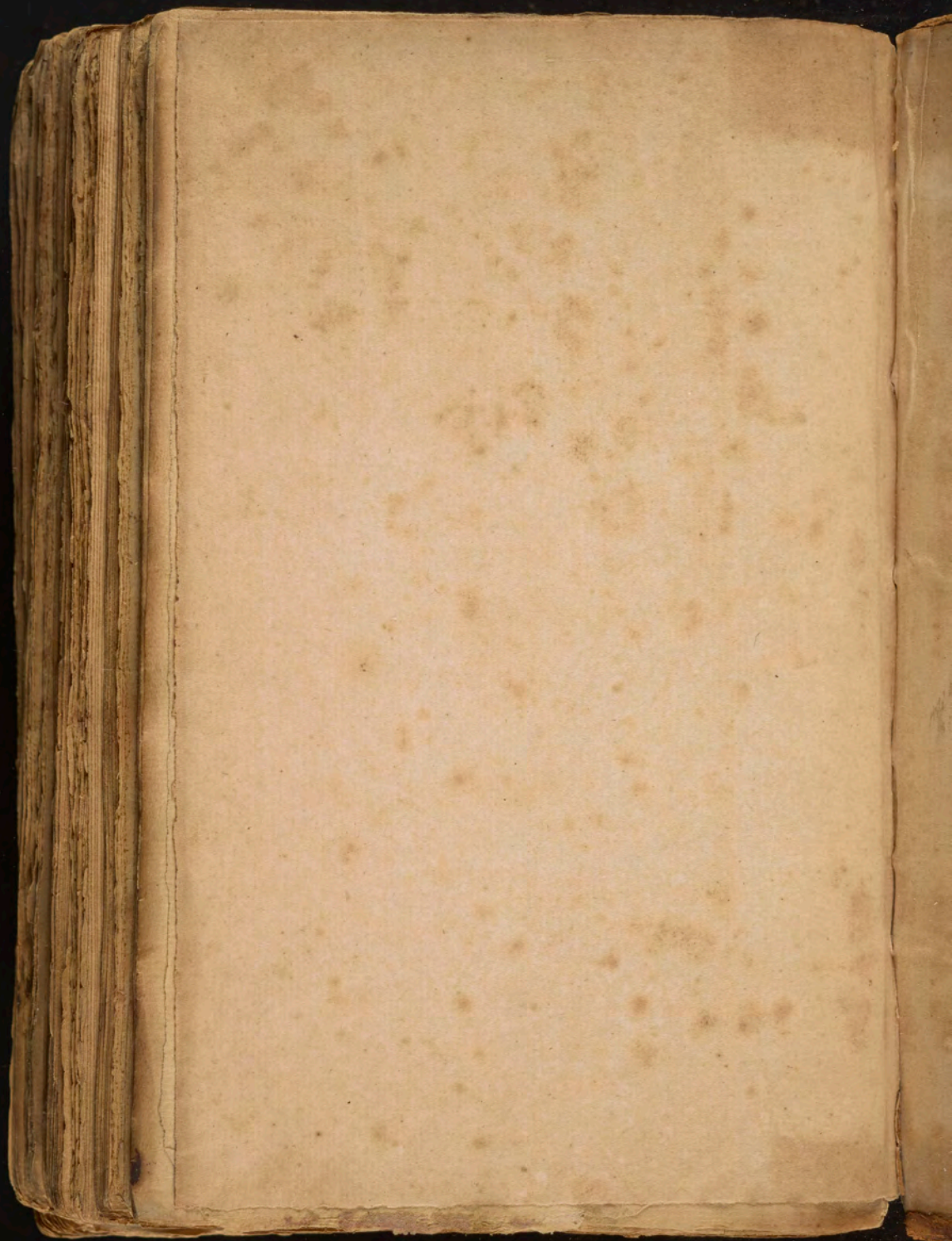












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